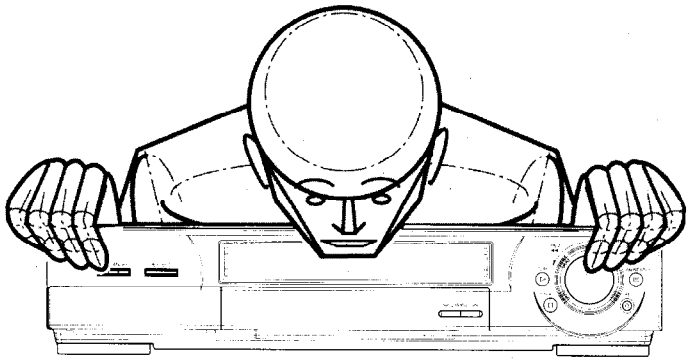
66

TOSHIBA



Video Cassette Recorder

V-859B

Hi-Fi VHS VIDEO Plus+ DELUXE

)WNER'S MANUAL

This publication is printed on recycled paper

is OWNER'S MANUAL is designed so that you will get the most from your new shiba VTR. Use the QUICK SET-UP GUIDE to set this product up before reading this Manual.

Toshiba customer helpline 0800 281137

Welcome to the high quality picture world created by the TOSHIBA V-859B. Read this manual carefully before using, and enjoy the various convenient functions of this VTR.

Record the model and serial Nos. located on the rear of your VTR (Video Tape Recorder) in the spaces provided below.

Model No. _____ Serial No. _____

General Information

If the socket outlets in your home are not suitable for the plug supplied with this unit, the plug must be cut off and an appropriate one fitted.

The plug severed from this mains lead must be destroyed as it is hazardous if inserted into a live socket.

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:

BLUE: NEUTRAL

BROWN: LIVE

As the colours of the wires in the mains lead of this unit may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire that is coloured blue must be connected to the terminal in the plug which is marked with the letter N or coloured black.

The wire that is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

Do not connect either wire to the earth terminal which is marked by the letter E or by the safety earth symbol ⏚ or coloured green or green-and-yellow.

Use a 3A fuse which is approved by ASTA or BSI to BS1362.
Always replace the fuse cover after changing the fuse.

To obtain the best performance and lasting satisfaction from your VTR;
see that it is properly installed with an adequate antenna system;
have it regularly checked by a qualified technical organization;
ensure that it is correctly used by all in the family.

ABOVE ALL:
Never let children insert any objects into holes or slots in the case as it may result in electric shocks.
Never guess or take a chance with your VTR–it is better to be safe than sorry!

Important Information

DO NOT PLUG THE VTR INTO THE MAINS UNTIL YOU HAVE READ *Connecting the Leads and Auto Set Up on page 9.*

OPTIMUM RECEPTION OF TELEVISION STATIONS REQUIRES A GOOD BROADCAST SIGNAL. THIS GENERALLY MEANS THAT AN OUTDOOR AERIAL MUST BE USED.

Mains Connection – The mains supply required for the equipment is 220-240v AC 50Hz. The rating plate and the safety caution are on the rear of the unit. **NEVER** connect to a DC supply or any other power source.

Mains Plug – DO NOT cut off the fused mains plug from the equipment.

IF IN DOUBT CONSULT A COMPETENT ELECTRICIAN

MOISTURE CONDENSATION:

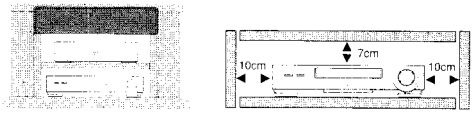
Never operate the VTR immediately after moving it from a cold location to a warm location. Leave it for TWO TO THREE hours without operating it. When the VTR is exposed to such a change in temperature, moisture may condense on the cylinder inside of the VTR – one of its most crucial internal parts. If moisture condensation occurs inside the VTR, the cassette tape may stick to the surface of the cylinder causing damage to the tape itself and the video head.

Moisture condensation is most likely to occur in the following cases:

- When the VTR is moved from a cold location to a warm location;
- In a room rapidly heated or in a place where the VTR is directly exposed to a cool flow of air from an air-conditioner or other electrical appliance;
- In a room with excessive dampness or high humidity.

VENTILATION SPACE

All Toshiba television stands are designed to house video recorders and other AV equipment whilst providing adequate ventilation. However, if you do not use a Toshiba stand, ensure that there is enough space around the video recorder/satellite receiver to provide adequate ventilation.



IMPORTANT... Purchasers and users of video tape recording machines are warned that, in the absence of appropriate licences from the copyright owners, the recording of television broadcasts or the re-recording of pre-recorded video tapes or tapes of television broadcasts will usually infringe the rights of copyrights owners in the broadcasts or tapes and other cinematographic, dramatic, artistic, sound recording, musical or literary copyrights. Infringement of copyrights is unlawful.

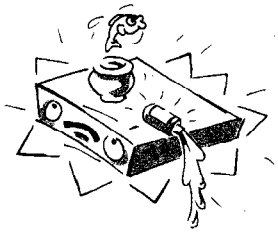
- HQ VHS is compatible with existing VHS equipment.
- Only cassettes marked VHS can be used with the video recorder.

This product conforms with the requirements of Directives 73/23/EEC, 89/336/EEC, 92/31/EEC and Articles 5 and 13 of Directive 93/68/EEC.

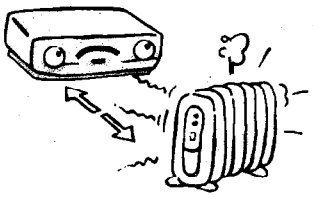
Important Information

PRECAUTION

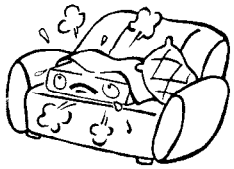
- Do not remove the top cover and never attempt to modify anything inside. Only allow qualified personnel to check and adjust the video recorder.



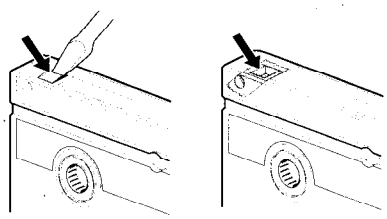
- Do not place containers with liquids, such as cosmetics, flowers, etc. on the video recorder. If water or any foreign material gets into the video recorder, switch off and remove the power cable. Then contact your local Toshiba dealer.



- Do not install the VTR in a location near heat sources, such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibrations or impacts.



- Allow adequate air circulation to prevent internal heat build-up. Do not place the VTR on soft surfaces (rugs, blankets, etc.), too near material such as curtains and draperies or in a built-in installation such as a bookcase or rack.



- To prevent accidental erasure of a video cassette, remove the safety tab with a screwdriver.
  To record again, cover the tab hole with adhesive tape.

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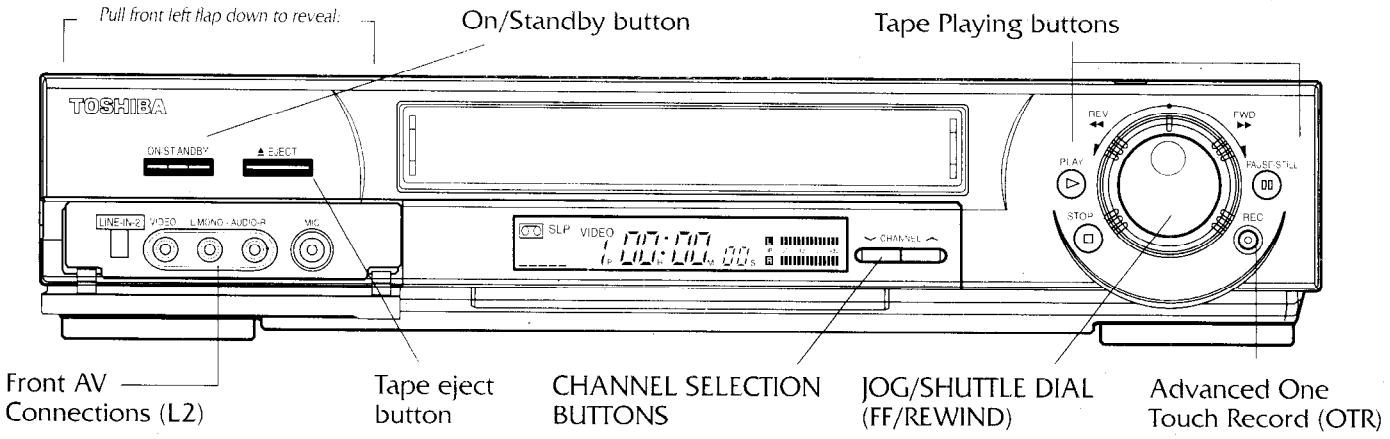
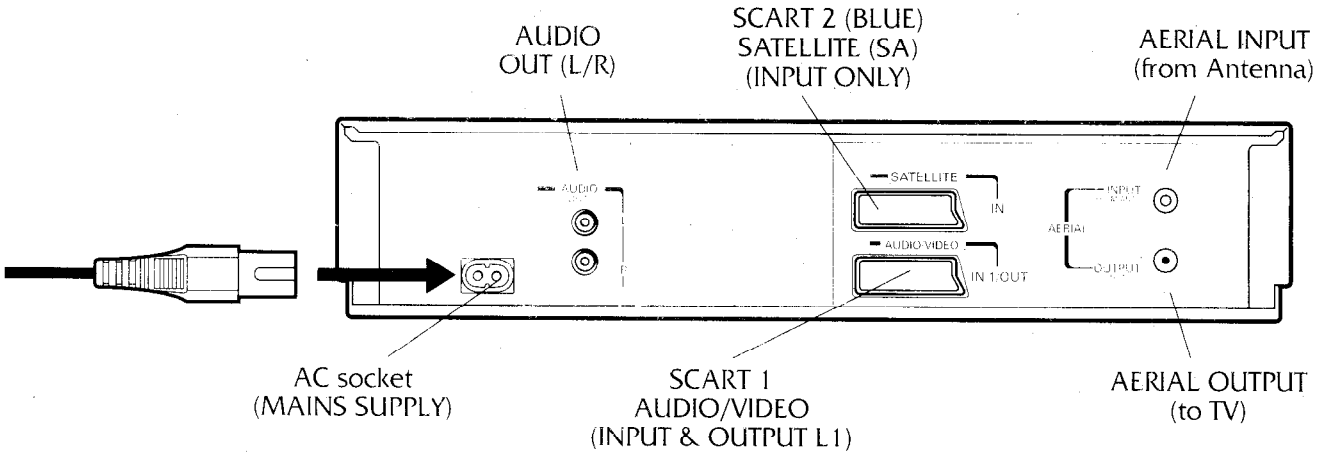
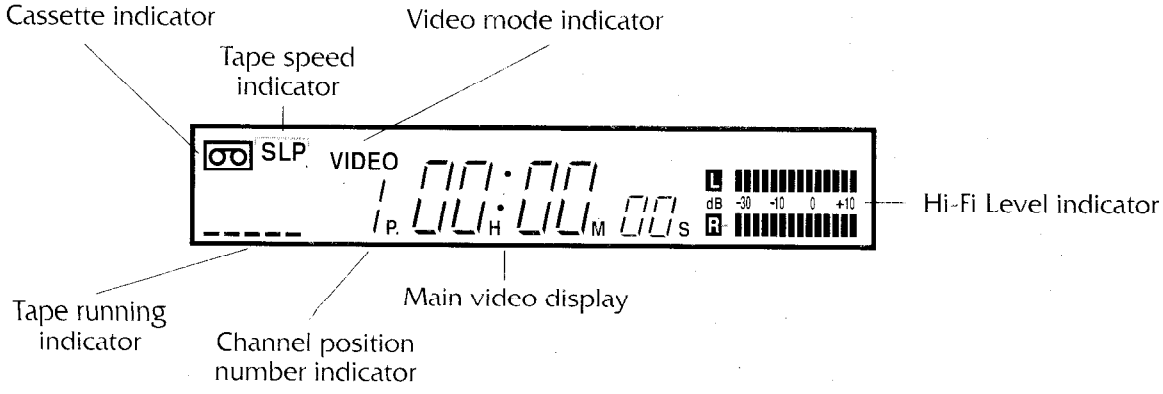
General Identification of the VTR Controls







Your Remote Control

The illustration below is to show a quick guide to the Remote Control. Detailed instructions occur throughout the book.

TV mode select button
Select to control the Television using this Remote Control

VTR mode select button
Select to control the Video Recorder using this Remote Control

Numbered buttons and ENTER

INPUT SELECT
To select video source

INDEX buttons
For Search, Rew/FF

MENU
To bring up the green MAIN MENU

Tape playing buttons
PLAY, STOP, REW (rewind), **FF** (fast forward), **SLOW** (slow motion playback), **PAUSE/STILL** (holding an image on screen)

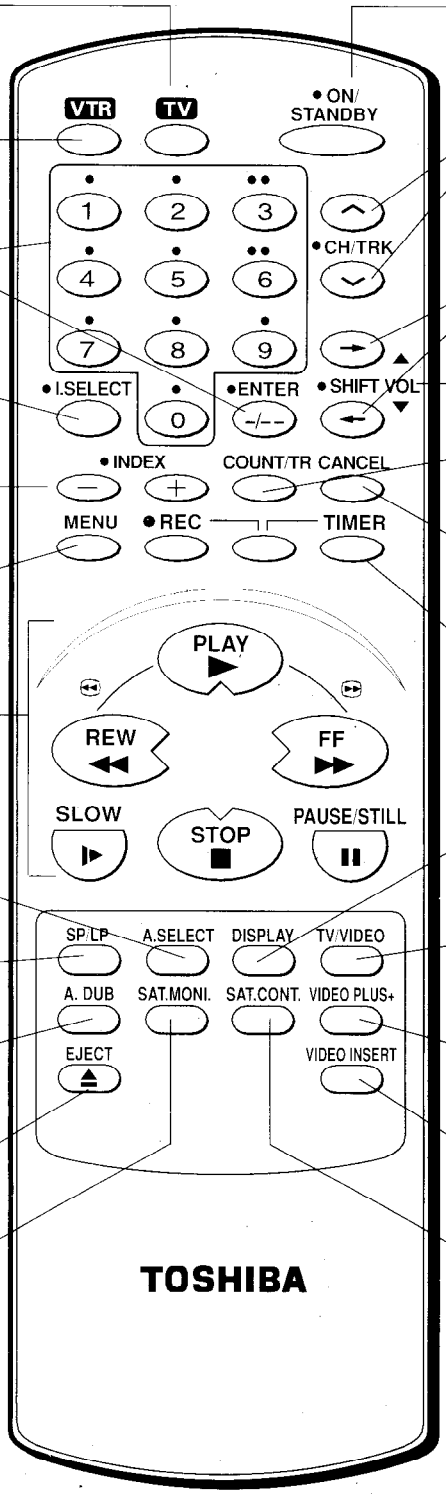
AUDIO SELECT
For sound track selection

SP/LP
To select tape length

AUDIO DUB
To add soundtrack/narration to previously recorded tapes

EJECT
To eject a tape

SATELLITE MONITOR
To watch a programme from the Satellite receiver while the VTR is recording a TV programme or is in playback or stop mode



ON/STANDBY

CHANNEL/TRACKING
Channel: To find the required television station, up or down one station at a time/
Tracking: To optimise the picture and sound on VTR playback

SHIFT left/right (VTR mode)
To go left/right across the selected menu screen items

VOLUME up/down (TV mode)

COUNT/TAPE REMAIN
Selects tape counter display, clock or tape time remaining

CANCEL
To cancel any programmed information

TIMER/REC
Timer and recording buttons

DISPLAY
To display the tape indicators on the television screen

TV/VIDEO button
To set the television to display either the TV or the VTR picture

VIDEO Plus+
To record programmes with PlusCode® programming number from TV listings

VIDEO INSERT
To edit a tape

SATELLITE CONTROL
Controlling the Satellite

Preparing your Remote Control

The Remote Control handset is needed to operate your new Toshiba video recorder. If used correctly, it should give years of trouble-free viewing. Please take good care of it, always observing the correct polarities when replacing the batteries.

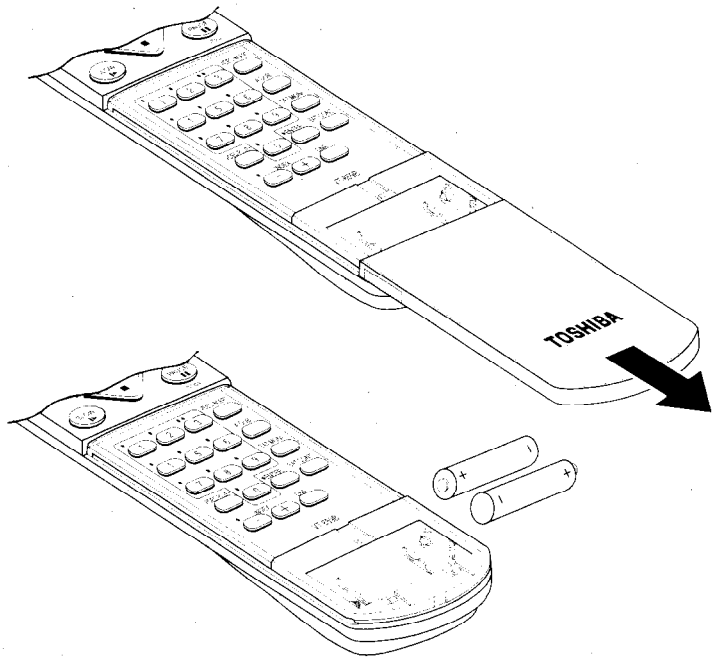
Carefully open the battery compartment on the rear of the Remote Control by sliding in the direction of the arrow.

Insert both batteries taking care to observe the correct polarity (+ and –).

The two Toshiba batteries supplied are Cadmium- and Mercury-free (UM-4, AAA, IECR03, 1.5v).

Replace the cover of the battery compartment.

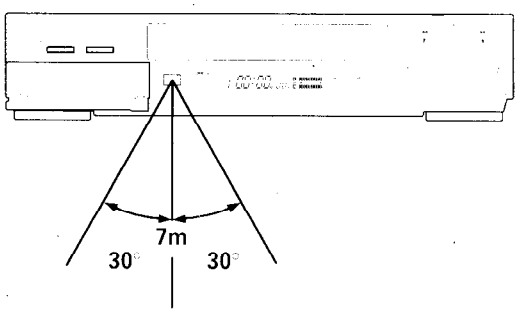
CAUTION:
DO NOT throw your batteries into a fire. Dispose of your batteries in a designated disposal area.
DO NOT mix an old battery with a new one.
DO NOT mix battery types.

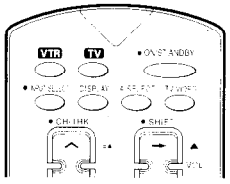


- When using the Remote Control, press the buttons at intervals of about 1 second to ensure the correct mode of operation.
- Keep the Remote Control away from extremely hot or humid places and avoid sharp impacts.
- Do not expose the remote sensor of the VTR to a strong light source such as direct sunlight or illumination (especially high-frequency lighting) when using the Remote Control.
- Be careful not to spill water on the Remote Control or to place it on anything wet.

For optimum performance your Remote Control will operate within a distance of 7 metres and up to 30° from the central position.

If the Remote Control does not work check whether the correct mode is set by pressing the VTR or TV button depending on the equipment you want to operate. Make sure there is no obstacle in the path of transmission and that the batteries are in good working order.



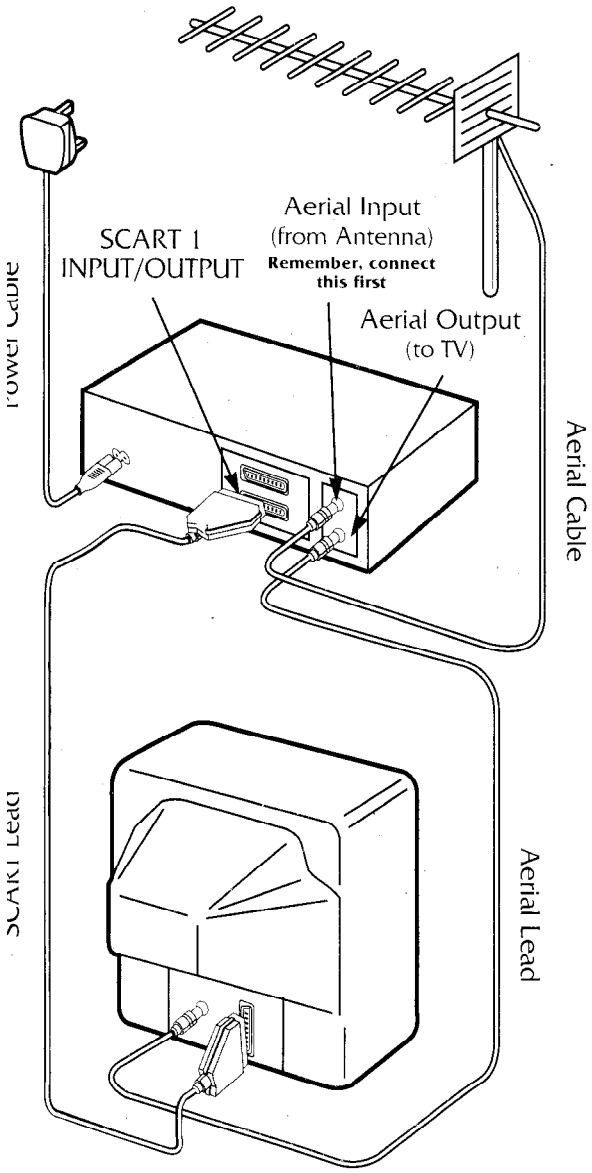


Connecting the Leads and Auto Set Up

When *first* connected to the mains electricity supply the VTR will automatically search and store TV stations in memory and also set the clock. But remember, you *must* connect the Aerial ***before*** connecting the VTR to the power supply.

Satellite users: Refer to section *SATELLITE CONTROL* starting on page 29.

REMEMBER:
DO NOT PLUG THE VTR INTO THE MAINS UNTIL *AFTER* YOU HAVE CONNECTED THE AERIAL CABLE AS SHOWN.



Note: You will not be able to playback tapes recorded in stereo unless you use a SCART Lead as well.

1 Connect the Aerial Cable to the VTR (Aerial Input).

2 Connect the Aerial Lead from the VTR (Aerial Output) to the TV.

3 Connect a SCART Lead from the VTR to the TV as shown. This will enable you to listen to Nicam stereo video tapes, provided that you have a stereo TV. *Nicam sound is only available if you use a SCART Lead.*

4 Connect the VTR to the power supply with the Power Cable.

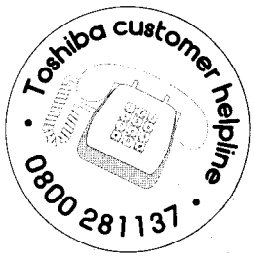
5 Now turn the power on.

6 Also turn on the television.

The display on the VTR will flash 'Auto' for about 2-4 minutes.

If you have connected with a SCART Lead you will see various television stations appear and disappear on your television.

Now turn the page to continue the Auto Set Up...



If you get any problems contact the helpline...

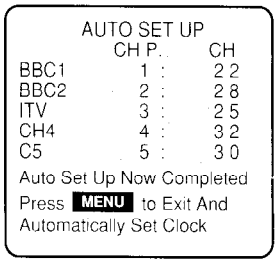
Auto Set Up continued

After connecting the Leads as on *page 9* and Auto Set Up has run, one of the following screens will be displayed. If not, select the AV channel on the television manually. If you have not connected the VTR using a SCART Lead select the channel on the TV that you normally watch videos on and tune this channel until you find one of these screens. Store this channel and select it every time you watch a video. If you have not connected the VTR using SCART Leads you will not be able to playback tapes recorded in Stereo.

Note: For full details of tuning your TV, please refer to your TV Owner's Manual.

1

This screen will be displayed if **All Channels Found.**



Auto Set Up is now complete.

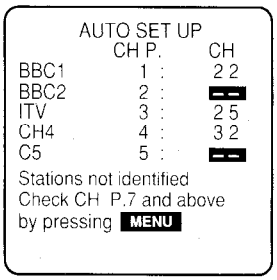
Press the MENU button on the Remote Control to automatically set the clock.

Go to page 11, Checking the Auto Set Up.

Channel 5 is only available in some areas of the country (and the reception may be poor). If Channel 5 is not stored in position 5 check to see if it is stored in 7 or above and use the Channel Swapping function as detailed on Page 12. If Channel 5 has not been stored and all other channels have been, it is likely that channel 5 is not available in your area.

2

This screen will be displayed if **Some Channels Found.**



The VTR has been unable to find the channels identified by the white flashing squares. They may be stored in positions 7 and above.

Press the MENU button and refer to *Channel Swapping on page 12.*

If no channels are found the clock will not set automatically.

Press the MENU button and select CLOCK SET from the green MAIN MENU screen.

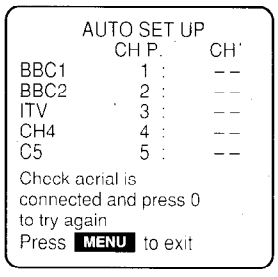
Using the number buttons on the Remote Control set the clock.

For single numbers press 0 first.
E.g. for April, which is 4, press 0 4.

Once the Date and Time have been set press the MENU button to exit.

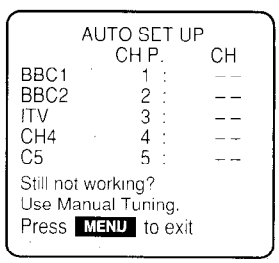
3

This screen will be displayed if **No Channels Found.**



The VTR has been unable to find any channels.
Check that the Aerial is connected correctly and press the number button 0 on the Remote Control.

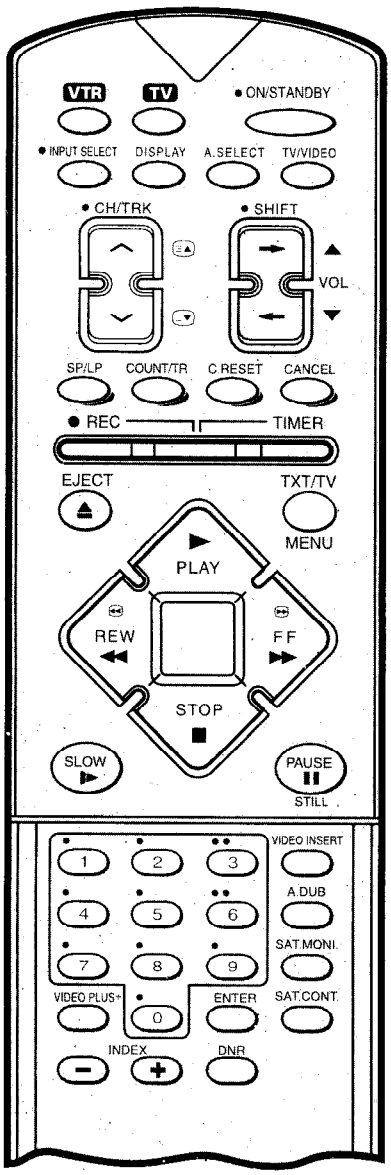
If no channels are found a second time, *see page 14, Manual Tuning.*



...If you get any problems contact the helpline

Checking the Auto Set Up

It is important that you check Auto Set Up has stored the channels in the correct order on the VTR for the operation of VIDEO Plus+ system.



Note: *Regional* variations – from some areas of the country you may be able to receive broadcasts from more than one region.

If your preferred regional broadcast is stored in position 7 or above please use the *Channel Swapping* facility as described on *page 12*.

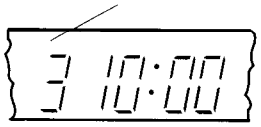
1 Turn on the TV and select the channel on which you watch videos.

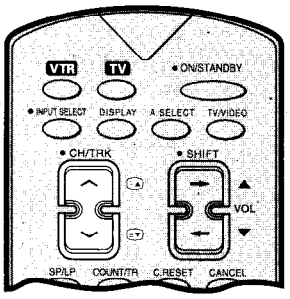
2 Now turn on the VTR.

3 Using the CH/TRK ^ v buttons on the Remote Control, check that the order of the TV stations (the programme position number) stored on the VTR is as follows:

The programme position number will change as you press the CH/TRK ^ v buttons.

Programme position number





Program Position	TV Station
1	BBC1
2	BBC2
3	ITV
4	Channel 4
5	Channel 5*
6	Satellite

(if you use a different order VIDEO Plus+® system will not work)

Any other stations will be stored in program positions 7, 8, etc.

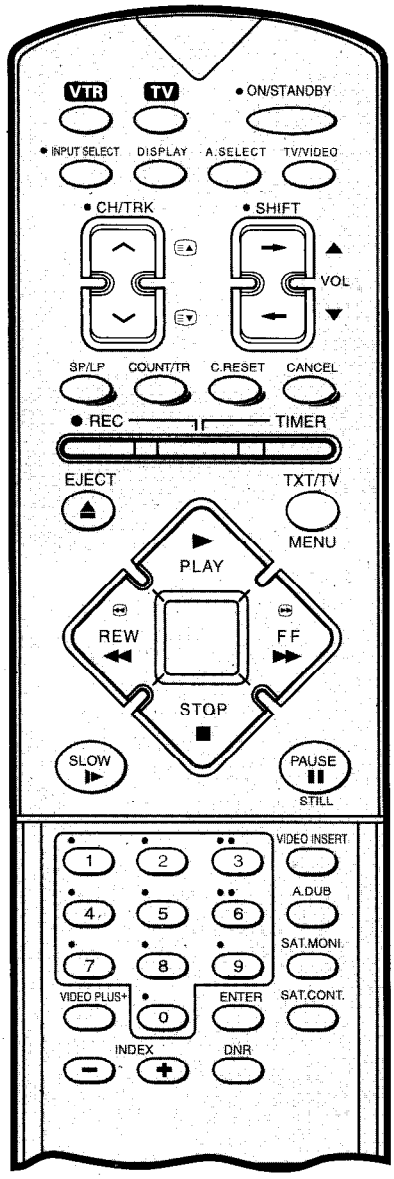
**Channel 5 is only available in some areas of the country (and the reception may be poor). If Channel 5 is not stored in position 5 check to see if it is stored in 7 or above and use the Channel Swapping function as detailed on Page 12. If Channel 5 has not been stored and all other channels have been it is likely that channel 5 is not available in your area.*

THE SET UP IS NOW COMPLETE

You are now ready to PLAYBACK TAPES and MAKE RECORDINGS.
Refer to the BASIC OPERATION section which starts on page 16.

Channel Swapping

You only need to use this section if the VTR did not tune in all of the stations in Auto Set Up or if you want to select a different regional Broadcast on a channel position.



1 Press the MENU button on the Remote Control to select the green MAIN MENU.

MAIN MENU
1 TIMER PROGRAMMING
2 USER SETTING
3 INSTALLATION
4 nexTViewLink SETTING
5 CLOCK SET
Press 1~5 to select
Press MENU to exit

2 Press button 3 to select the blue INSTALLATION MENU.

INSTALLATION MENU
1 AUTO SET UP
2 MANUAL SET UP
3 SATELLITE SETTING
SAT. CONNECTION (SAT)
SAT. BRAND AND TYPE – (TOSHIBA)
Press 1~3 to select
Press MENU to exit

3 Press button 2 to select the blue MANUAL SET UP screen.

MANUAL SET UP
1 CH SWAPPING
2 MANUAL TUNING
3 ANTENNA SELECT (MIX)
4 RF OUT CHANNEL (35)
Press 1~4 to select
Press MENU to exit

4 Press button 1 to select CH SWAPPING. The Channel Swapping screen will appear superimposed over the TV picture.

5 Press the CH/TRK ^ or CH/TRK v button on the Remote Control to find the station required (CH P.). The picture on the TV will change as you move up and down the channels.

6 *E.g. If you were to find Channel 5 stored in position 7:* Select the new channel position (NEW CH P.) using the number buttons on the Remote Control, *e.g.* for *5* Press number buttons 0 and 5.

CH SWAPPING
CH P. → NEW CH P.
7 → 5
CH P. v / ^ to find station
Select NEW CH P. press 0~9
Press SHIFT → to swap
Press MENU to exit

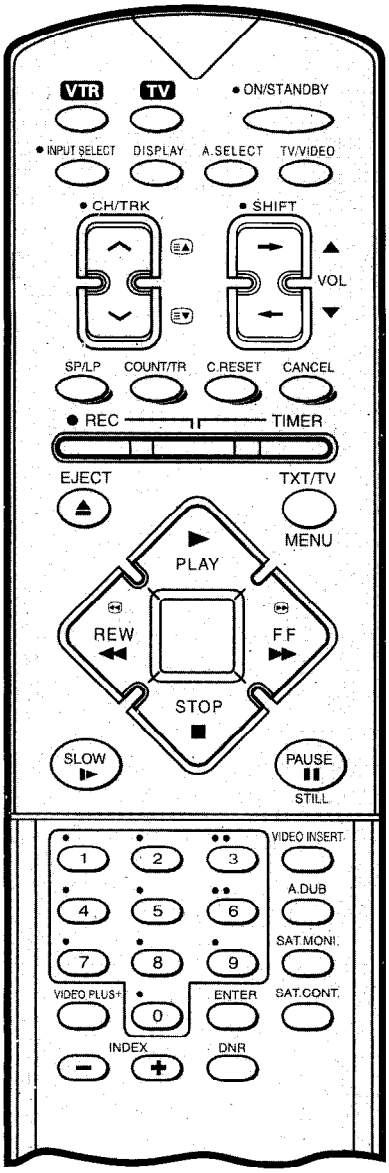
7 Press SHIFT → to swap the channels. The station now displayed has been saved in the channel position indicated on screen.

8 Continue for all the other channels to be swapped. When all the missing stations have been found press the MENU button to exit and *see page 11. Checking the Auto Set Up.*

Restarting Auto Set Up

If you ever need to re-run the Auto Set Up process, for example, if you move house, carry out the connections as detailed on *page 9* and re-start as described here.

If the Auto Set Up does not work check the Aerial connection to the VTR and from the VTR to the TV.



1 Press the MENU button on the Remote Control to display the green MAIN MENU on the screen.

MAIN MENU

1 TIMER PROGRAMMING
2 USER SETTING
3 INSTALLATION
4 nexTViewLink SETTING
5 CLOCK SET

Press 1~5 to select
Press MENU to exit

2 Press button 3 to select the blue INSTALLATION MENU.

INSTALLATION MENU

1 AUTO SET UP
2 MANUAL SET UP
3 SATELLITE SETTING
SAT. CONNECTION (SAT)
SAT. BRAND AND TYPE
– (TOSHIBA)

Press 1~3 to select
Press MENU to exit

3 Press button 1 to select AUTO SET UP.

The AUTO SET UP screen comes up.

AUTO SET UP

	CH P.	CH
BBC1	1 :	22
BBC2	2 :	28
ITV	3 :	25
CH4	4 :	32
C5	5 :	30

Press SHIFT→ to search
Press MENU to exit

4 Press SHIFT → to start Auto Set Up.

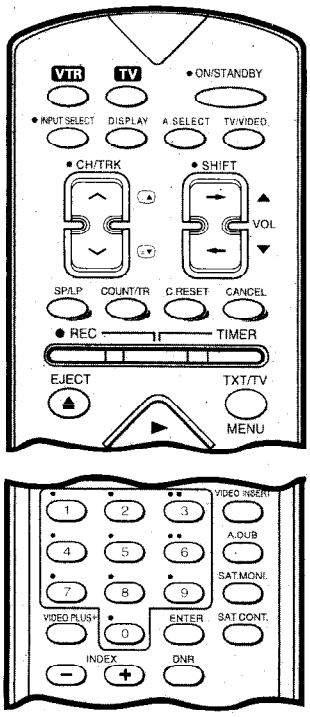
5 Refer to *page 10* and follow the relevant steps for the screen displayed, depending upon the result.

Manual Tuning and Cable TV Installation

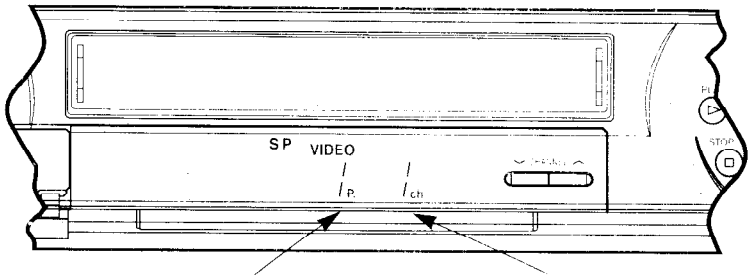
Manual Tuning is available as a back-up if Auto Set Up does not work due to poor Broadcast Reception. When using Manual Tuning you will need to use the information on the VTR front display panel.

Note: Some Cable systems send all their TV and Satellite programmes on one channel only.
If you have this type of system you should tune in one Position number on the video and then use the Cable Box to select the chosen channel to record.

BBC1: Position number **1**
BBC2: Position number **2**
ITV: Position number **3**
CHANNEL 4: Position number **4**
CHANNEL 5: Position number **5**
Satellite/Cable: Position number **6**



Note: The VTR must display a position *number* before tuning in can start. Remove any tape and if L1, L2 or SA is displayed press the INPUT SELECT button on the Remote Control so that a position number *is* displayed.



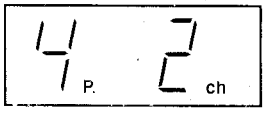
p. = Channel Position number on the VTR

ch = Broadcast Channel number

1 Press the MENU button on the Remote Control to display the green MAIN MENU.

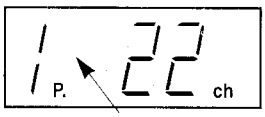
2 Press number button 3 to select the blue INSTALLATION screen.

3 Press number button 2 to select the blue MANUAL SET UP screen and then 2 again for MANUAL TUNING. The menu will disappear off the TV screen to show a programme and the front display panel on the VTR will now appear as follows:



Position number *Channel number*

4 Press the CH/TRK ^ or CH/TRK v button on the Remote Control to select position number 1.

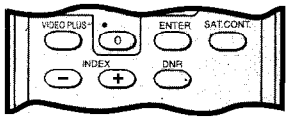


(new chosen) Position number

5 Press and hold the SHIFT → button for a second on the Remote Control to start searching for BBC1. The *ch* numbers will change on the front VTR display panel as the search takes place and a flashing cursor will also appear.

6 If the TV signal that is found is *not* BBC1, repeat the process until BBC1 *is* showing on the TV screen.

If, after searching, a clear picture is not displayed on the TV screen, adjustments can be made with the INDEX + and INDEX – buttons on the Remote Control.



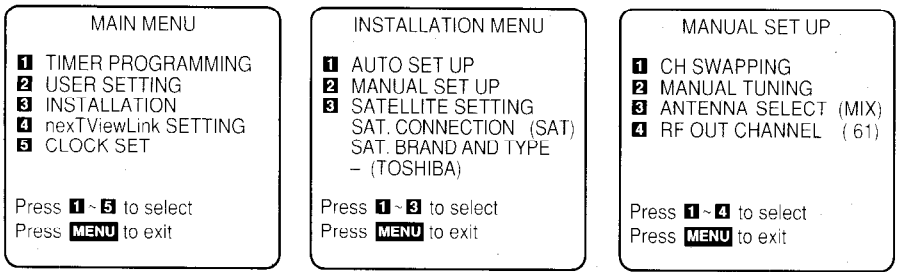
7 When the correct TV signal is showing repeat steps **4** to **6** for the other TV stations and for the Cable stations if your Cable receiver is not connected by a SCART Lead.

8 Press the MENU button on the Remote Control to exit. Channel Tuning is now complete and you can select a television programme by the position number on which the TV station is stored.

Additional RF Tuning Information

In some areas of the country you may experience interference from other broadcast stations or from other AV equipment. This may be reduced or eliminated by choosing to turn OFF the RF output from your VTR or by changing the MIX/SWITCH mode.

If a SCART Lead has been used as detailed in the GETTING STARTED section and you are experiencing problems with interference from other equipment or channels, you can turn OFF the RF output:



1 Press the MENU button on the Remote Control to display the green MAIN MENU.

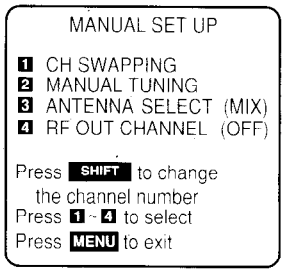
2 Press number button 3 to select the blue INSTALLATION MENU.

3 Press button 2 to select MANUAL SET UP.

4 Press button 4 to select RF OUT CHANNEL and the screen prompts you to 'Press SHIFT to change the channel number'.

5 Press SHIFT → or SHIFT ← until OFF appears in the RF OUT CHANNEL option.

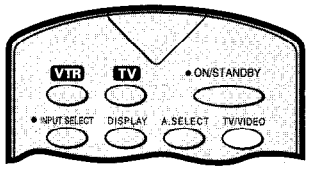
6 Press MENU to exit.
If you believe you are having interference problems, consult your dealer or ring the Toshiba helpline.

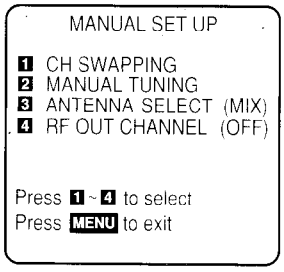

MANUAL SET UP
1 CH SWAPPING
2 MANUAL TUNING
3 ANTENNA SELECT (MIX)
4 RF OUT CHANNEL (OFF)
Press SHIFT to change the channel number
Press 1~4 to select
Press MENU to exit

An alternative to switching off the RF output to avoid interference problems.

This enables you to have a tape playing on the VTR but to still be able to view a chosen television channel. For example, you may be watching a video but are waiting for a news item to come on that you would like to watch temporarily. So while the tape continues to play, you can view the chosen TV channel but return later to watching the video.
To enable you to do this MIX must be chosen in the MANUAL SET UP screen. If SW (Switch) is chosen the TV/VIDEO button on the Remote Control must be pressed to show the 'video' indicator lit on the front VTR display panel and you will only be able to watch the tape that is playing; you will not be able to view a television programme while the tape is still playing.

It is recommended that MIX is kept as the option.





1 Follow steps 1-3 above.

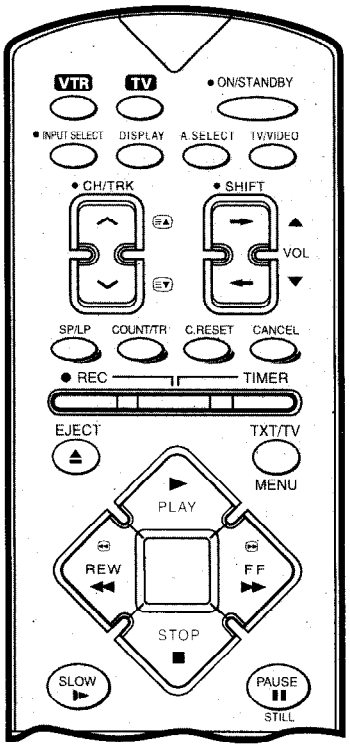
2 Press number button 3 ANTENNA SELECT until (SW) or (MIX) is selected.

3 Press MENU to exit.

...If you get any problems contact the helpline

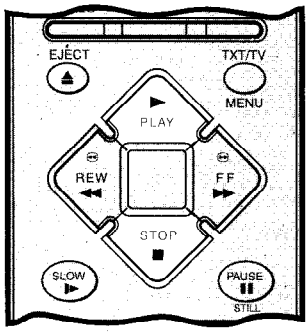
Watching a Pre-Recorded Tape

If you insert a commercially pre-recorded tape, it will automatically start to play. If you have not used a SCART Lead you will first need to select the channel on the television that you watch videos on. The VTR is fitted with an autohead cleaner which automatically cleans the video heads during playback.



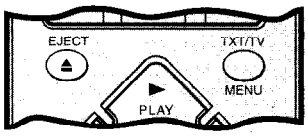
1 Insert a tape with the clear window facing upwards. The 'video cassette loaded' symbol will appear on the VTR front display.

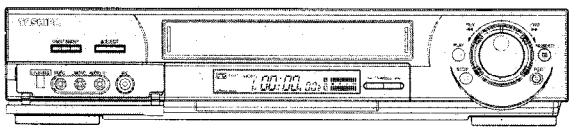
2 To play the tape, press the PLAY button on the Remote Control.



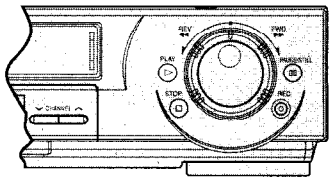
3 To stop the tape press the STOP button on the Remote Control.

4 To eject a tape press the EJECT button on the Remote Control.

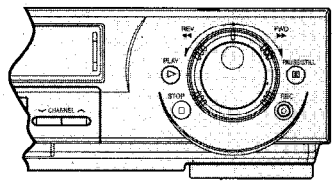




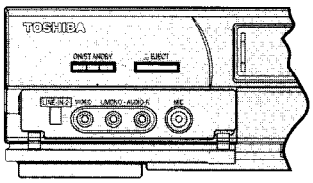
1 To play the tape, press the PLAY button on the front of the VTR.



2 To stop the tape press the STOP button.



3 To eject the tape press the EJECT button.

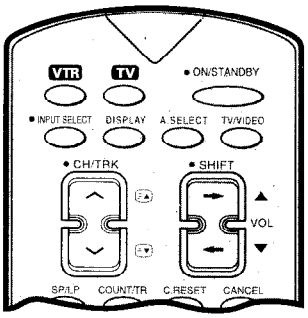


Tracking and Picture Enhancing Digital Noise Reduction – DNR

As each VTR is different, slight adjustments need to be made in the way the tape is read. This is called 'Tracking'.

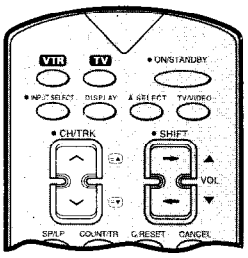
When playback starts the video recorder automatically adjusts the Tracking to obtain the best possible picture and sound: Digital Auto Tracking. The blue DT (Digital Tracking) indicator will flash while this adjustment takes place and the playback picture and sound may be distorted. The VTR will automatically adjust the Tracking as best it can.

If you playback rented tapes or tapes recorded on other machines, you may occasionally find that the Digital Auto Tracking is not able to improve the picture sufficiently. In these instances you will need to adjust the Tracking manually.

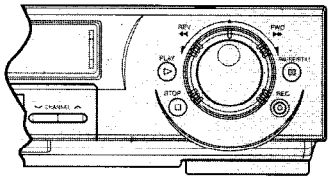


To manually adjust Tracking

1 With a tape in and playing, hold down either the CH/TRK ^ or CH/TRK ⌄ button on the Remote Control until the best possible picture and sound is obtained.



2 To resume Automatic Digital Tracking, press the two CHANNEL buttons on the front of the VTR at the same time until the DT light comes on.



3 If the tape is old or worn, it may be impossible to improve the picture performance.

If you press the PAUSE/STILL button the image may shimmer. This may also be reduced by adjusting the Tracking.

The digital technology of DNR compares each individual frame of the tape in succession detecting the difference between areas of 'natural motion' where the image has correctly changed from one frame to the next and areas of 'non overlap' – picture 'noise'.

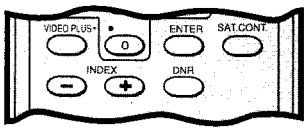
During Playback DNR removes these unwanted elements leaving only crisp, accurate images.

Depending on the recorded picture you may not notice a reduction in the noise and DNR may not work on pictures recorded from special equipment such as TV game machines or computers.

DNR+ is Digital Noise Reduction with picture sharpness enhancements. By repeatedly pressing the DNR button, the DNR mode is displayed cyclically as follows :

› **DNR+** › **DNR OFF** › **DNR ON**

When DNR is off, the picture is noisy. When DNR is on, the background noise is reduced. When DNR+ is selected, the background noise is reduced plus the picture sharpness enhancement.



Variable Speed Playback

When viewing a tape it can be played at various speeds.

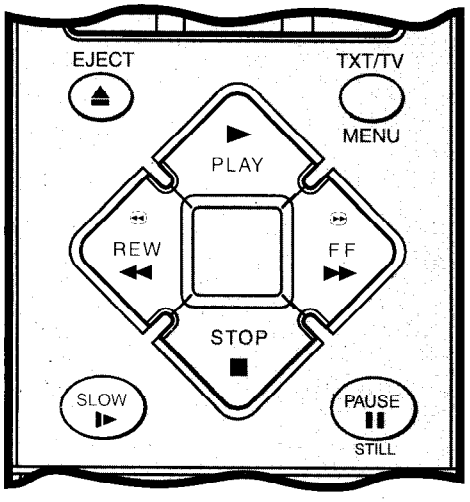
As well as normal playback, you can view a tape at various speeds.

When watching a tape, you can look for a particular scene by pressing either the FF or REW button or view the tape in slow playback using the SLOW button.

In Picture Search, the quality of the image may deteriorate.

If you view a tape recorded in Long Play (LP) mode, or recorded on another VTR, the picture quality may be poor or even in black and white.

Improvements can sometimes be made by adjusting the Tracking, *see page 17.*



When in Picture Search or Slow Motion, the quality of the image may deteriorate.

Picture Search enables you to Fast Forward or Rewind and look for a particular part of a tape.

1 Press PLAY, the VTR will enter normal play mode. While in play, press and release the FF (or REW) button. The VTR will search at 5 times the normal playback speed.

2 To return to normal playback mode, press the PLAY button.

3 If you press and HOLD down the FF (or REW) button the VTR will search at 13 times the normal speed. Releasing the FF button will return the VTR to search at 5 times the normal speed. To return to normal playback mode, press the PLAY button.

4 Whilst in Picture Search mode, if you press the FF button again, the VTR will enter normal Fast Forward mode.

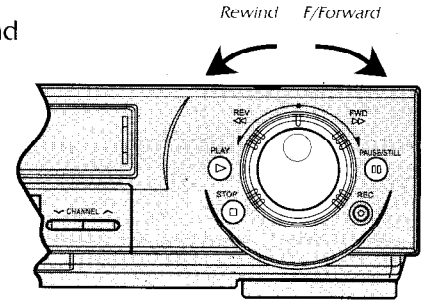
5 Likewise, whilst in Picture Search REW mode, if you press the REW button again, the VTR will enter normal Rewind mode.

6 If, when Rewinding (REW) or Fast Forwarding (FF), you press the REW (or FF) button, the VTR will enter the Picture Search mode.

7 To view a tape in Slow Motion, when in PLAY, press and release the SLOW button on the Remote Control. The playback will slow down to 1/6th of normal speed. If you press the SLOW button twice, the playback will slow down to 1/12th of normal speed.

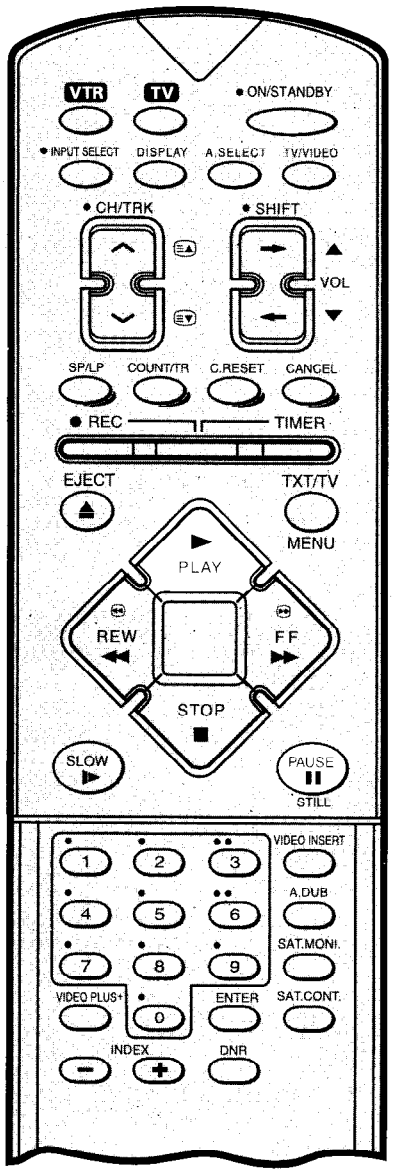
8 Press PLAY to resume normal playback.

1 **Picture Search:** When in PLAY mode turn the OUTER ring on the JOG/ SHUTTLE DIAL *clockwise* to search forwards and *anti-clockwise* to search backwards.
Slow Motion: When in PLAY, press the PAUSE/STILL button and operate the DIAL as above. The further you turn the ring, the faster the playback. To resume playback, press the PAUSE/STILL button again.



Trick Play Functions

Holding images and advancing frames on the screen.



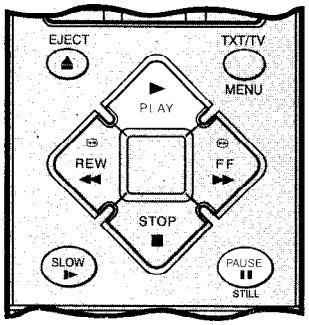
1 When in PLAY, if you want to hold an image on screen, simply press the PAUSE/STILL button.

This will freeze the frame for about 5 minutes.

2 To advance one frame at a time, press and release the PLAY button.

3 To play the tape at 1/25th of normal speed, press and hold the PLAY button.

4 To resume PLAY, press the PAUSE/STILL button again.

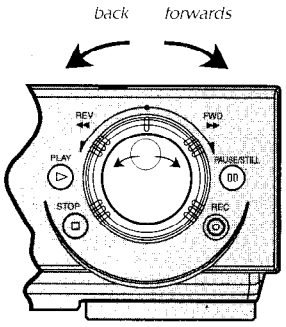


1 When in PLAY, if you want to hold an image on screen, simply press the PAUSE/STILL button on the front of the VTR.

This will freeze the frame for up to 5 minutes.

2 To forward or backward one frame at a time, turn the INNER ring on the JOG/SHUTTLE DIAL *clockwise or anti-clockwise.*

3 To resume PLAY, press the PAUSE/STILL button again.

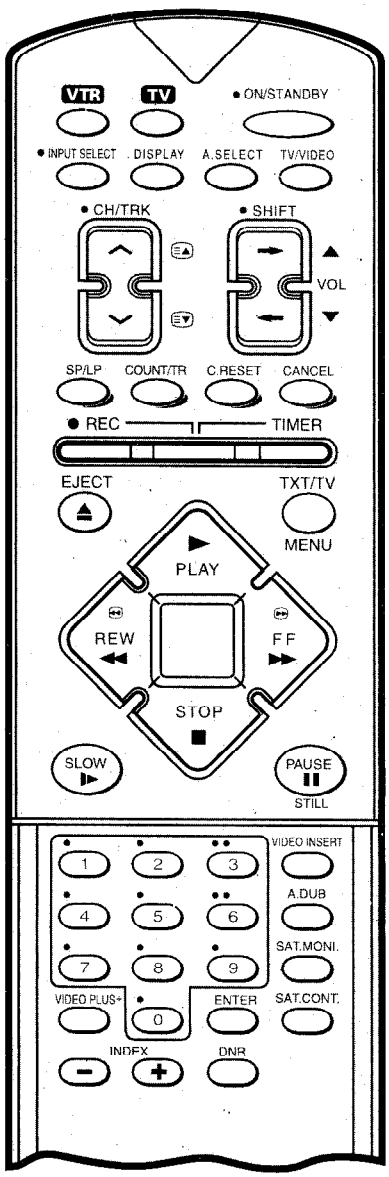


If left unattended for about 5 minutes in the Picture Still mode, the Freeze Frame will cancel and the VTR will revert to PLAY.

Note: Fast moving images may shimmer when Freeze Frame is selected. This can sometimes be reduced by adjusting the Tracking, *see page 17.*

VIDEO Plus+® system

VIDEO Plus+ system is the easiest way to record TV programmes, using short numerical codes. These PlusCode programming number, shown in most TV listings pages, tell the video recorder when to start and stop recording a particular programme. These PlusCode® programming number appear after the programme description.

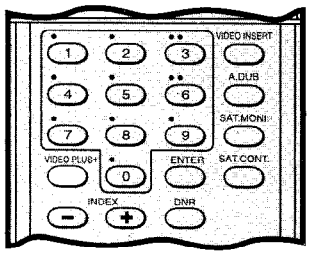


***PDC WARNING PLEASE NOTE:**
If you have selected PDC ON *(see page 26)* do not change the advertised start time of the programmes or the video will not record.

VIDEO Plus+ and PlusCode are registered trademarks of Gemstar Development Corporation. The VIDEO Plus+ system is manufactured under license from Gemstar Development Corporation.

1 *Before you begin:* Turn on the VTR and the TV.
Ensure the clock is set correctly.
Make sure that the TV stations have been stored correctly on the VTR as in the order shown on *page 11*.

2 Press the VIDEO Plus+ button on the Remote Control.



3 Enter the PlusCode® programming number, using the number buttons on the Remote control. *E.g.* to record a TV programme with a PlusCode® programming number of *1234*, press *1234*. Check that you have entered the numbers correctly and press the VIDEO Plus+ button to confirm. If you make a mistake, simply press the CANCEL button and re-enter the PlusCode® programming number.

PlusCode (-)
Enter PlusCode and
press **VIDEO Plus+**
to confirm

Press **CANCEL** to cancel
Press **MENU** to exit

4 You are now prompted to confirm how many times you want to record this event, *i.e.* ONCE, DAILY or WEEKLY – *e.g.* ONCE, Press 1.

PlusCode (1234)
Select rec frequency
1 ONCE
2 DAILY (MO ~ FR)
3 WEEKLY

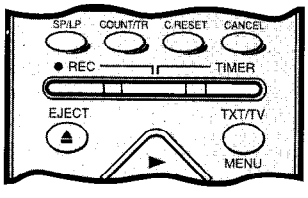
Press **1** ~ **3** to select
Press **CANCEL** to cancel
Press **MENU** to exit

5 The TV will now confirm the programme information that relates to the PlusCode® programming number entered, along with the recording defaults *e.g.* PDC ON/OFF*.

14:39 5.11. '99 FR
CH DATE ON OFF SPD
1 2 ONCE 3 16:45 ~ 17:45 PDC SP
2
3
4
5
6
Press **1** ~ **6** to select
Press **TIMER** to record

6 If you wish to enter another VIDEO Plus+® system recording press the VIDEO Plus+ button again and repeat steps **3** to **4.**

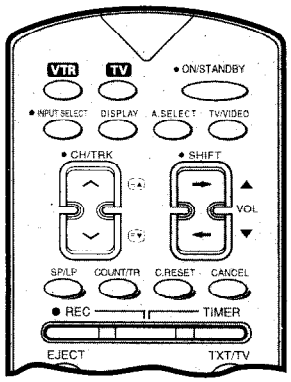
7 If OK, press the two TIMER buttons at the same time. The TIMER indicator on the front panel of the VTR will light up.



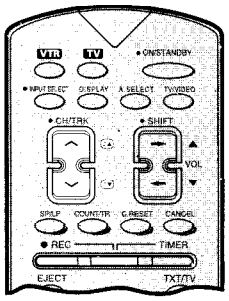
One Touch Record – Advanced OTR

Recording the selected video channel at the touch of a button.

One Touch Recording enables you to record what is currently showing and set the off timer for up to 4 hours in advance.



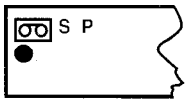
1 Turn on the VTR and select the desired channel number using the CH/TRK ^ ˇ buttons on the Remote Control.



2 Insert a video tape.

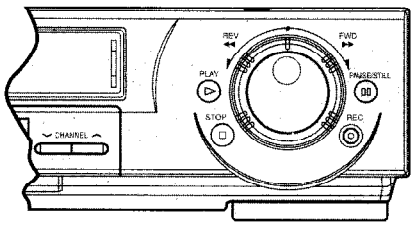
3 To record what is currently showing, simply press the two REC buttons on the Remote Control.

A red dot will be displayed below the 'video cassette loaded' symbol.



This will set the VTR to record until either the STOP button is pressed or the end of the tape is reached.

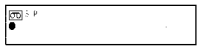
Advanced OTR starts recording simply at the touch of a button. When using Advanced OTR the VTR will count the time from the hour and ½ past the hour. If you press the REC button at 14:15 – the 1st off time shown will be 14:30, pressing the REC button again will set an off time of 15:00.



Turn on the TV and select the video channel.

1 Turn on the VTR and select the desired channel number using the Channel buttons on the front of the VTR.

2 Insert a video tape. Press the REC button. A red dot will be displayed below the 'video cassette loaded' symbol on the front of the VTR.



The VTR will continue to record until the STOP button is pressed or the tape runs out.

By repeatedly pressing the REC button on the VTR you can set the VTR to record for a preset time. The VTR display will show the time that the recording will stop and a red hand symbol will appear.

Once more	30 minutes
Twice	60 minutes
Three times	90 minutes
Four times	120 minutes
Five times	150 minutes
Six times	180 minutes
Seven times	210 minutes
Eight times	240 minutes
Nine times	-:-- Cancel

To STOP an OTR, simply press the STOP button. To extend the recording time (*i.e.* delay the stop time) press the REC button on the VTR repeatedly to extend in 30 minute sections.
If you wish to skip a scene or adverts, simply press the PAUSE/STILL button. This will pause the recording. To start the recording again, simply press the PAUSE/STILL button again.

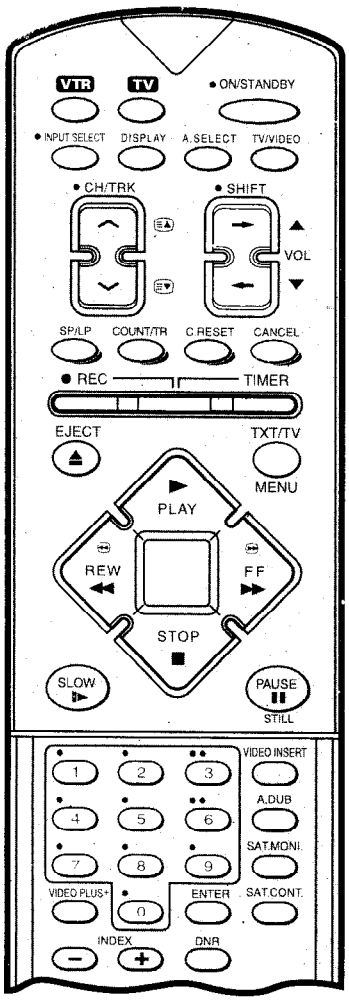
Note: Advanced OTR only works with the REC button on the front of the VTR.

Using On-Screen Programming

Before recording a television broadcast, the clock, date and year must be set.

Note: Use the SHIFT → or SHIFT ← buttons on the Remote Control to move the cursor forwards or backwards. If you make a mistake, simply press the SHIFT ← button to move back and re-enter the number.

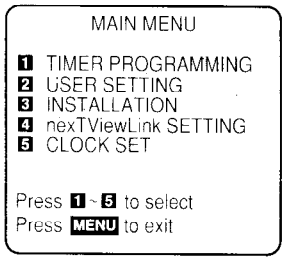
Timer recordings can easily be made using the On-Screen Programming function. Up to 6 timed events can be set for up to one month in advance.



To cancel any programmed information, select TIMER PROGRAMMING from the green MAIN MENU and, with the event number highlighted *e.g. 1*, press the CANCEL button to clear the programmed information.

***PDC WARNING PLEASE NOTE:**
If you have selected PDC ON *(see page 26)* do not change the *advertised* start time of the programmes or the video will not record.

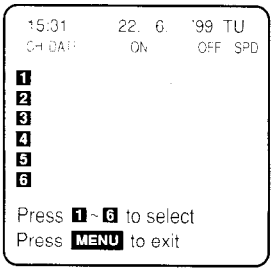
1 Press the MENU button to display the green MAIN MENU.

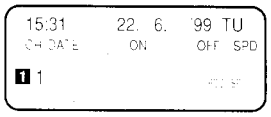


2 Press number 1 to select the blue TIMER PROGRAMMING screen.

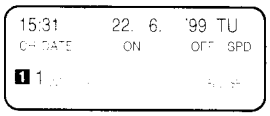
3 Select the first available event (usually position 1, there are 6) using the numbered buttons on the Remote Control, *e.g. Button 1 for position 1.*

4 Follow the prompts at the bottom of the screen. Select the channel position number *e.g. 01 for Channel 1* using the number buttons. If you want to record from L1, L2 or SA, press the INPUT SELECT button on the Remote Control (*see page 6* for appropriate Input): L1 = SCART; L2 Front AV; SA= SATELLITE.



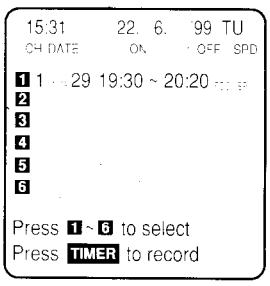


5 Confirm how many times you want to record this event, *i.e.* ONCE, DAILY, or WEEKLY. Press 1, 2 or 3 accordingly. Confirm the day if appropriate.

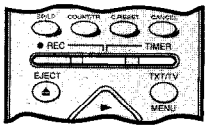


6 Set the date you want the recording to take place, *e.g.* 29 for the 29th. The VTR can record up to 1 month in advance. All you need to do is simply put in the date (NOT the month) and the VTR will store the information.

7 Set the recording START time and FINISH time, using the number buttons on the Remote Control. *E.g.* START 1 9 3 0 FINISH 2 0 2 0. Select Programme Delivery Control (PDC*) ON or OFF: number button 1 for ON, 2 for OFF – *see page 26.* Select the desired tape speed 1 for SP (Standard), 2 for LP (Long Play) or 3 for AUTO (*see page 24*). Repeat for all remaining timed recordings that you wish to make.



8 Press BOTH THE TIMER buttons on the Remote Control at the same time. The VTR switches to 'Timer On' mode. If you wish to turn the Timer off for any reason simply press the 2 TIMER buttons again.



Note: Remember to reset the VTR to "Timer On" mode.

User Settings – nexTViewLink

You can preset the video to your chosen recording defaults by using the *USER SETTING* screens from the green MAIN MENU.

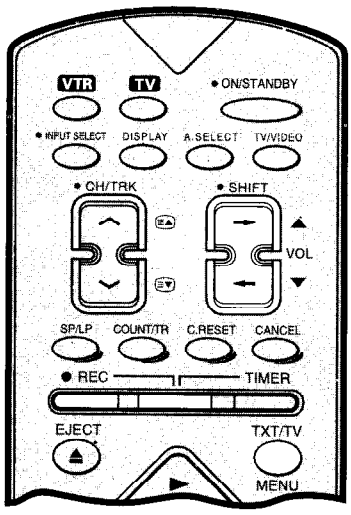
nexTViewLink:

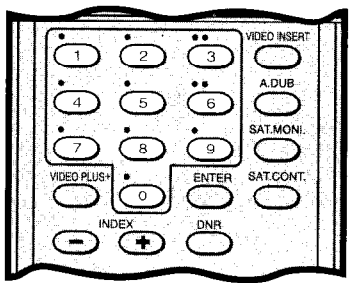
In the future new types of **teletext** may be available. This Electronic Programming Guide (EPG) will enable you to utilise **nexTViewLink**.

However, before you can use **nexTViewLink** you must set the nexTViewLink SETTINGs to enable the VTR to receive information from a nexTViewLink TV.

'TV CH P. DOWN LOAD', the first option will enable you to download the channel order that is stored on your TV.

Having done this, you can then enable the TV to send instructions directly from the nexTView pages.





Note: Ensure a SCART Lead is connected.

1 Press the MENU button on the Remote Control to select the green MAIN MENU.

2 Press button 4 to select the nexTViewLink SETTING screen.

3 Press number button 1 to select TV CH P. DOWNLOAD.

4 By pressing the number buttons on the Remote Control to select the channels, download the channel orders by pressing SHIFT →

1 = BBC1 2 = BBC2 3 = ITV
4 = CH4 5 = CH5

Having downloaded the channel order you must now instruct the VTR to accept this information. Follow the on screen instructions

5 Press the MENU button to exit TV CH P. DOWN LOAD screen.

6 Now select 2 TV PICTURE RECORD from the nexTViewLink SETTING menu by pressing number button 2 to change to ON.

To turn this facility off, choose OFF by pressing the number button 2 whilst in the nexTViewLink SETTING screen.

MAIN MENU
1 TIMER PROGRAMMING
2 USER SETTING
3 INSTALLATION
4 nexTViewLink SETTING
5 CLOCK SET

Press 1~5 to select
Press MENU to exit

nexTViewLink SETTING
1 TV CH P. DOWN LOAD
2 TV PICTURE RECORD (OFF)

Press 1~2 to select
Press MENU to exit

TV CH P. DOWN LOAD
CH P CH
1 – –

Press SHIFT→ to DOWNLOAD
Press MENU to exit

nexTViewLink SETTING
1 TV CH P. DOWN LOAD
2 TV PICTURE RECORD (ON)

Press 1~2 to select
Press MENU to exit

Having downloaded the channel order and set the TV PICTURE RECORD to ON you can now instruct the VTR to record information from the television. For example, you may be watching a news item and decide to record it. Because the setting on the PICTURE RECORD was turned to ON the VTR will automatically record from the current television station, *irrespective* of what channel the VTR is set to (unlike the OTR function) by pressing the two REC buttons.

The TV will automatically switch the VTR into Timer Mode.

ONLY USE THESE OPTIONS IF YOU HAVE A nexTViewLink TELEVISION.

User Settings continued
– Tape Speed and 16:9

Presetting the video to your chosen recording defaults using the *USER SETTING* screens from the green MAIN MENU.

The USER SETTING screen has 2 displays.

By pressing SHIFT → whilst on the USER SETTING **1/2** screen you will progress to the USER SETTING **2/2** screen.
Press SHIFT ← and you will go back to USER SETTING screen **1/2**.

MAIN MENU

1 TIMER PROGRAMMING
2 USER SETTING
3 INSTALLATION
4 nexTViewLink SETTING
5 CLOCK SET

Press 1 - 5 to select
Press MENU to exit

USER SETTING 1/2

1 TAPE SELECT (E180)
2 16:9 (AUTO)
3 ECO MODE (OFF)
4 ADJUST CLOCK (ON)
5 NICAM (ON)

Press 1 - 5 to change
Press SHIFT → to next
Press MENU to exit

USER SETTING SCREEN 1

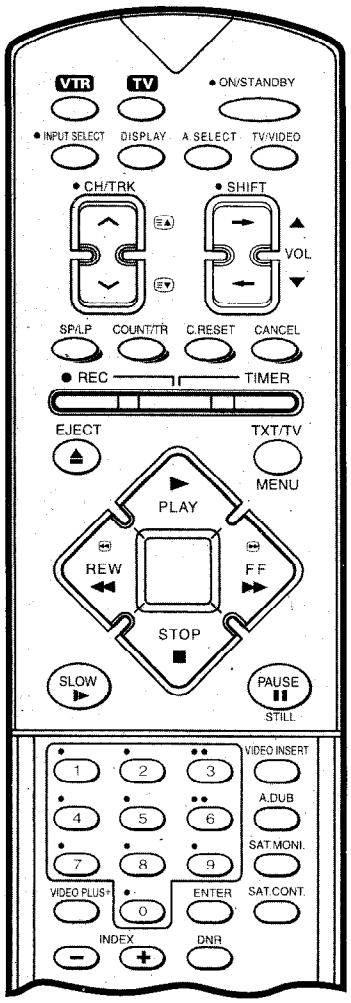
USER SETTING 2/2

1 PDC DEFAULT (OFF)
2 NTSC ON PAL TV (ON)
3 VIDEO Plus+ EXTEND (OFF)
4 COLOUR (ON)
5 MENU BACKGROUND (ON)

Press 1 - 5 to change
Press SHIFT ← to previous
Press MENU to exit

USER SETTING SCREEN 2

Note: If you suffer a power failure the settings will need to be reset.



Note: Ensure you connect the VTR to the television using a SCART Lead.

For timer recording, if there is not enough tape available, the VTR will automatically calculate how much more tape is needed and will switch from SP (Standard Play) to LP (Long Play) if tape speed 3 for AUTO is selected. Standard Play gives a better quality picture and sound. For the VTR to to able to calculate you must first tell it what length of tape is in the VTR.

1 Press the MENU button on the Remote Control to display the green MAIN MENU.

2 Press number button 2 to select the USER SETTING 1/2 screen.

3 Press number button 1 repeatedly to select between (E180), (E240), (E260) and (E300).

USER SETTING 1/2
1 TAPE SELECT (E260)

4 Having selected the length of tape that is in the VTR, press the MENU button twice to exit.

When the VTR changes from SP (Standard Play) to LP (Long Play) the picture on screen may momentarily distort.

Note: For tapes shorter than 180 minutes use E180 setting.

This VTR can automatically adjust an image to fill a wide television screen. If you playback a tape which has been recorded in 16:9 format, or playback a wide format television programme via a connected Satellite receiver the TV will automatically display the images in their correct proportions.

1 Press the MENU button on the Remote Control to display the green MAIN MENU.

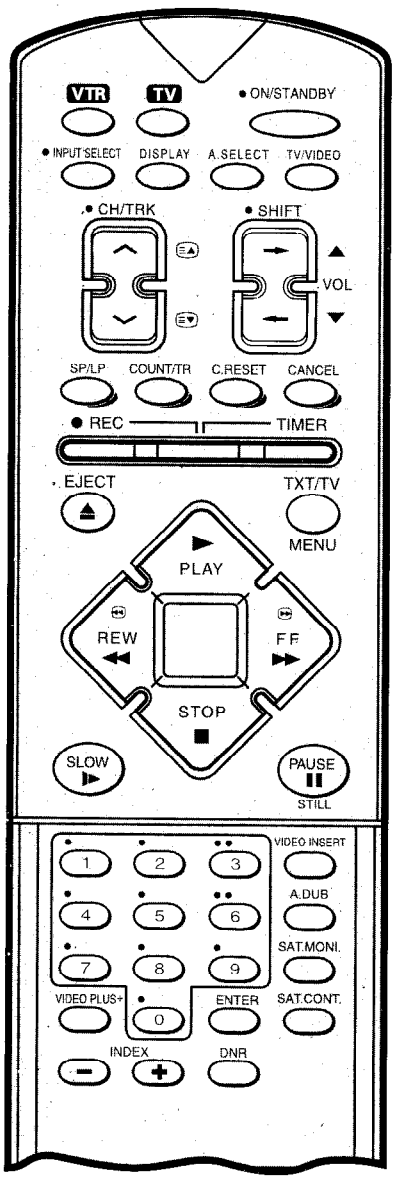
2 Press number button 2 to select the USER SETTING 1/2 screen.

USER SETTING 1/2
2 16:9 (ON)

3 On the USER SETTING 1/2 screen press number button 2 repeatedly to select between (ON), (OFF) and (AUTO):
OFF = If a wide TV is *not* used;
ON or AUTO = When a wide TV *is* used.

4 Press MENU to exit.

User Settings continued
– ECO MODE, ADJUST CLOCK, NICAM



Note: Ensure you connect the VTR to the television using a SCART Lead.

ECO MODE reduces the Standby power consumption of the VTR when in Standby mode. Useful, for example, when you are away from the house on holiday. It saves actually turning the VTR off.

1 Press the MENU button on the Remote Control to display the green MAIN MENU.

2 Press number button 2 to select the USER SETTING 1/2 screen.

3 Press button 3 to turn ECO MODE ON. Now, when the VTR is in Standby mode the front display panel will shut off. Even the clock disappears. By pressing the Standby button again on the Remote Control the display panel will reappear.

USER SETTING 1/2
3 ECO MODE (ON)

4 Press MENU to exit.

By setting the ADJUST CLOCK to ON there will be no need to adjust the clock manually. This will be automatically carried out for you daily.

1 Press the MENU button on the Remote Control to display the green MAIN MENU.

2 Press button 2 to select the USER SETTING 1/2 screen.

USER SETTING 1/2
4 ADJUST CLOCK (ON)

3 Press button 4 to turn ADJUST CLOCK ON and press MENU to exit.

The VTR is capable of receiving and decoding NICAM sound system broadcasts, delivering quality stereo or mono sound.

1 Press the MENU button on the Remote Control to display the green MAIN MENU.

2 Press number button 2 to select the USER SETTING 1/2 screen.

USER SETTING 1/2
5 NICAM (ON)

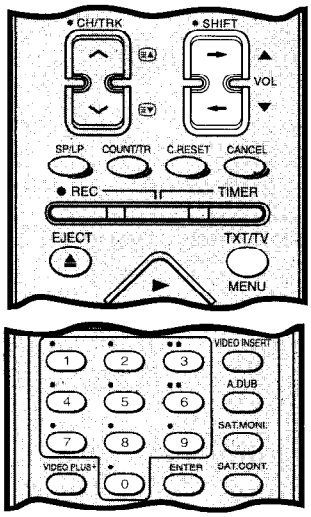
3 Press number button 5 to turn NICAM ON and press MENU to exit.

Note: It is recommended that you keep NICAM ON so that you are always benefitting from optimum sound.

User Settings continued – PDC, NTSC on PAL TV, VIDEO Plus+ EXTEND

PDC only works when the VTR is programmed and in the Timer Mode. If you set the VTR back to Standby before the recording has been made the programme will remain in the VTR's memory. If you fail to set the VTR back to Timer Mode the PDC recording will remain until you cancel/clear the recording; press the MENU button on the Remote Control, choose 1, TIMER PROGRAMMING, select the programme and press the CANCEL button. Alternatively, put the VTR into Timer Mode overnight and all the PDC recordings will be cleared automatically by 7.00am.

Note: Currently, not all broadcasters transmit PDC signals and, if you *do* use PDC you must set the *exact advertised* start and end times. Not five minutes before and ten minutes after.



Programme Delivery Control is a system of telling the VTR when a programme *actually* starts. Typically, when you want to record a programme you will tell the VTR to start recording, probably, five minutes before the *advertised* starting time of the programme and to finish ten minutes or so after the programme is *due* to finish. So even if the programme starts early or finishes late you will normally still get to see what you wanted to record. However when live programmes over-run or the day's television schedule is changed from that advertised, you may miss the desired programme which may have been delayed or even cancelled.

With PDC the VTR will wait until the signal is sent to confirm the programme is starting and the VTR will record the programme *even* if it is two or more, hours late.

1 Press the MENU button on the Remote Control to display the green MAIN MENU.

2 Press number button 2 to select USER SETTING 1/2.

3 Press SHIFT → to proceed onto the USER SETTING screen 2/2.

4 Press number button 1 to select ON in PDC DEFAULT option.

5 Press MENU to exit.

USER SETTING 2/2

1 PDC DEFAULT (ON)
2 NTSC ON PAL TV (ON)
3 VIDEO Plus+ EXTEND (OFF)
4 COLOUR (OFF)
5 MENU BACKGROUND (ON)

Press 1~5 to change
Press SHIFT← to previous
Press MENU to exit

USER SETTING SCREEN 2

REMEMBER: If you have selected PDC *ON* do not change the *advertised* start time or the VTR *will not record.*

NTSC is the television standard used in many parts of the world.

See *page 28 NTSC Playback*.

USER SETTING 2/2

2 NTSC ON PAL TV (ON)

To prevent delays or over-runs the VTR has a function called VIDEO Plus+ EXTEND allowing you to extend the recording time by up to 60 minutes.

Note: Only use if PDC is not available or set to OFF.

1 As steps 1-3 above and press button 3 repeatedly to set the VIDEO Plus+ EXTEND time by increments of 10 minutes.

2 To turn off, press 3 repeatedly until OFF shows.

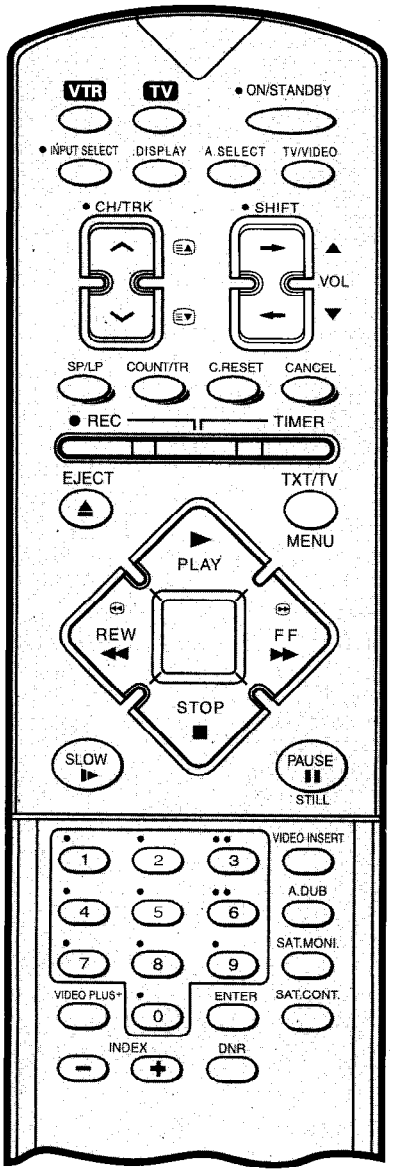
USER SETTING 2/2

3 VIDEO Plus+ EXTEND (20)

User Settings continued – COLOUR, MENU BACKGROUND

To view video tapes in Colour the COLOUR option in USER SETTING 2/2 must be set to ON. However, when viewing black and white tapes you may find that by choosing OFF the picture is improved.

USER SETTING 2/2
4 COLOUR (OFF)



The MENU BACKGROUND can be toggled to ON or OFF.

1 Press the MENU button to display the green MAIN MENU.

MAIN MENU
1 TIMER PROGRAMMING
2 USER SETTING
3 INSTALLATION
4 nexTViewLink SETTING
5 CLOCK SET

Press 1~5 to select
Press MENU to exit

2 Press button 2 to select the blue USER SETTING 1/2 screen.

USER SETTING 1/2
1 TAPE SELECT (E260)
2 16:9 (OFF)
3 ECO MODE (ON)
4 ADJUST CLOCK (OFF)
5 NICAM (OFF)
Press 1~5 to change
Press SHIFT→ to next
Press MENU to exit

USER SETTING SCREEN 1

3 Press SHIFT → to go to USER SETTING 2/2 screen.

USER SETTING 2/2
1 PDC DEFAULT (OFF)
2 NTSC ON PAL TV (ON)
3 VIDEO Plus+ EXTEND (OFF)
4 COLOUR (OFF)
5 MENU BACKGROUND (ON)
Press 1~5 to change
Press SHIFT← to previous
Press MENU to exit

USER SETTING SCREEN 2

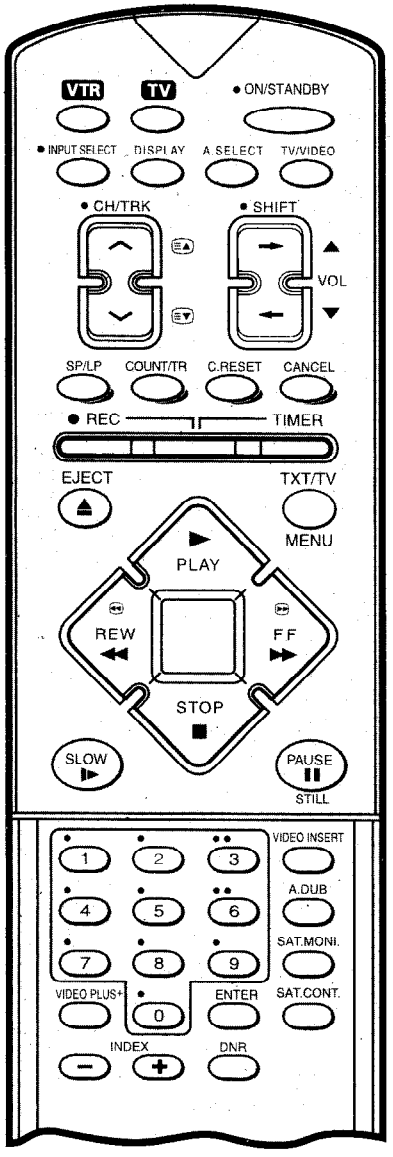
4 Press button 5 to select MENU BACKGROUND.

ON : OSD screen : Full page OSD with Blue Background picture.
OFF : OSD screen : Full page OSD with Super Impose picture.

5 Press MENU to exit.

NTSC Playback

NTSC is the broadcasting standard used in Japan and the USA. The VTR has a function that enables you to view NTSC tapes. Stereo tapes are played back in stereo.



Note: The playback quality of NTSC tapes is not as good as PAL tapes and the picture and sound quality may be poor. The picture may shrink vertically, black bars may appear at both the top and bottom of the screen and Variable Speed Playback may not function correctly (*i.e.* Picture Still, Search, Slow Playback etc). Digital Auto Tracking may not work correctly.

Playback of recordings made in SLP mode may be poor due to the limitations of conversion.

Playing back a cassette on a PAL ONLY TV

The VTR will decode NTSC signals, so the NTSC option available on the VTR must be set to ON.

1 Press the MENU button to display the green MAIN MENU.

MAIN MENU
1 TIMER PROGRAMMING
2 USER SETTING
3 INSTALLATION
4 nexTViewLink SETTING
5 CLOCK SET

Press 1 - 5 to select
Press MENU to exit

2 Press button 2 to select the blue USER SETTING 1/2 screen.

USER SETTING 1/2
1 TAPE SELECT (E260)
2 16:9 (OFF)
3 ECO MODE (ON)
4 ADJUST CLOCK (OFF)
5 NICAM (OFF)
Press 1 - 5 to change
Press SHIFT→ to next
Press MENU to exit

USER SETTING SCREEN 1

3 Press SHIFT → to go to USER SETTING 2/2 screen.

4 Press button 2 to select NTSC ON PAL TV ON.

5 Press MENU to exit.

USER SETTING 2/2
1 PDC DEFAULT (OFF)
2 NTSC ON PAL TV (ON)
3 VIDEO Plus+ EXTEND (OFF)
4 COLOUR (OFF)
5 MENU BACKGROUND (ON)
Press 1 - 5 to change
Press SHIFT← to previous
Press MENU to exit

USER SETTING SCREEN 2

Playing back a cassette on an NTSC 4.43 compatible TV

The TV will decode the NTSC signal, so the 'NTSC Playback on PAL TV' option available from the VTR must be set to OFF.

1 Press the MENU button to display the green MAIN MENU.

2 Press button 2 to select the blue USER SETTING 1/2 screen.

3 Press SHIFT → to go to USER SETTING 2/2 screen.

4 Press button 2 to select NTSC ON PAL TV OFF.

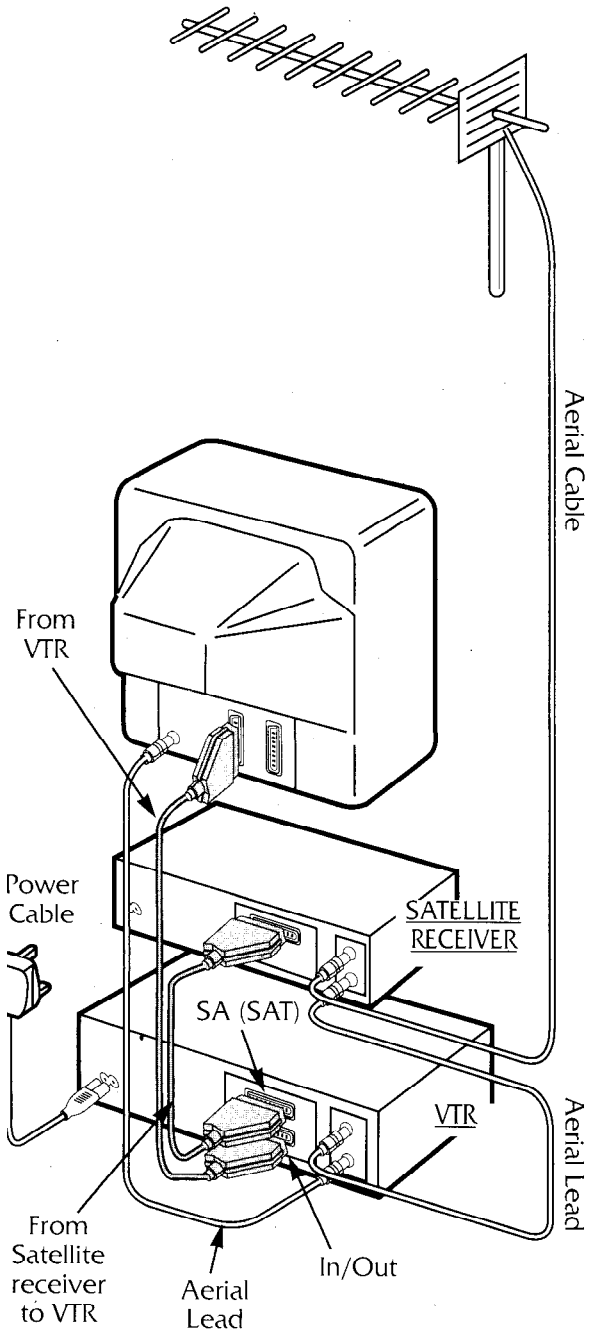
5 Press MENU to exit.

USER SETTING 2/2
1 PDC DEFAULT (OFF)
2 NTSC ON PAL TV (OFF)
3 VIDEO Plus+ EXTEND (OFF)
4 COLOUR (OFF)
5 MENU BACKGROUND (ON)
Press 1 - 5 to change
Press SHIFT← to previous
Press MENU to exit

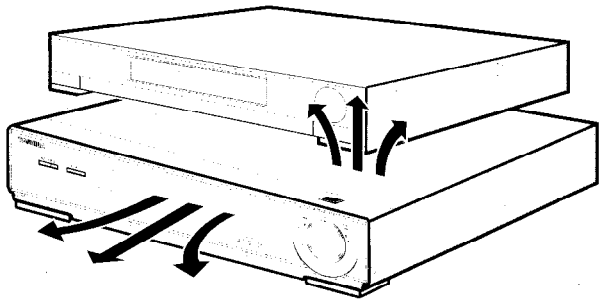
USER SETTING SCREEN 2

Connections

Connection and positioning of the Satellite receiver.



Positioning the Satellite receiver:



The VTR will control or 'talk' to the Satellite receiver via infra-red signals which are sent out from the VTR's display window and top-mounted sensor.

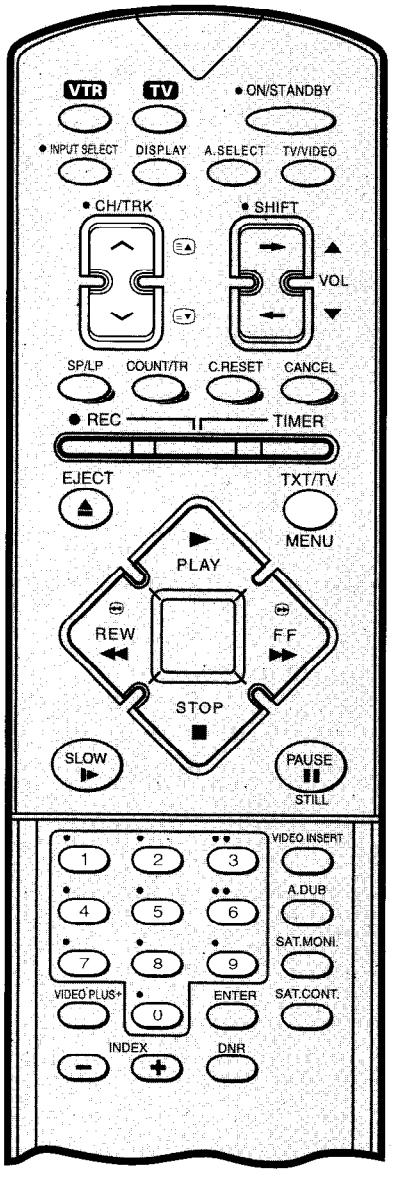
It is essential that you correctly position the VTR and Satellite receiver.

Ideally, you should position the Satellite receiver *above* the VTR.

- Do not block the VTR's sensors.
- The infra-red signals come out of the sensor windows, bounce off walls and objects in the room and are picked up by the Satellite receiver.

Note: When using a SCART Lead between the Satellite receiver and the VTR always ensure that you connect the SCART Lead to the SCART input socket marked SATELLITE IN on the VTR.

Control of Satellite Channels via Satellite Control



Having connected your Satellite receiver and positioned it correctly, you now need to tell the VTR how it is connected, what Brand of Satellite receiver you have and what order of Satellite channels have been set.

1 Press the MENU button on the Remote Control to display the green MAIN MENU.

MAIN MENU
1 TIMER PROGRAMMING
2 USER SETTING
3 INSTALLATION
4 nexTViewLink SETTING
5 CLOCK SET

Press 1~5 to select
Press MENU to exit

2 Press button number 3 to select the blue INSTALLATION MENU and 3 again to select the blue SATELLITE SETTING screen.

INSTALLATION MENU
1 AUTO SET UP
2 MANUAL SET UP
3 SATELLITE SETTING
SAT. CONNECTION (SAT)
SAT. BRAND AND TYPE
– (TOSHIBA)

Press 1~3 to select
Press MENU to exit

3 Select 1~4 depending on how you have connected the Satellite receiver.

SATELLITE CONNECTION
How is your satellite connected?
1 SATELLITE SCART (SAT)
2 RF AERIAL (CH P.)
3 AV SCART (LINE1)
4 FRONT AV (LINE2)

Press 1~4 to select
Press MENU to exit

If you have connected the Satellite receiver using RF AERIAL (Option 2 from the SATELLITE CONNECTION) the VTR needs to be told which channel you have tuned your Satellite to. The screen will prompt you. Use the number buttons on the Remote Control, *e.g.* 0 6 for channel 6.

If the Satellite receiver has been connected – and turned on – prior to running AUTO SET UP then the Satellite receiver should be stored in positon 6.

Once this number has been entered, press the MENU button on the Remote Control.

4 Select the Satellite Brand from the SATELLITE BRAND page according to your satellite receiver brand. Change the brand name by using the CH/TRK ∧ ∨ buttons on the remote control.

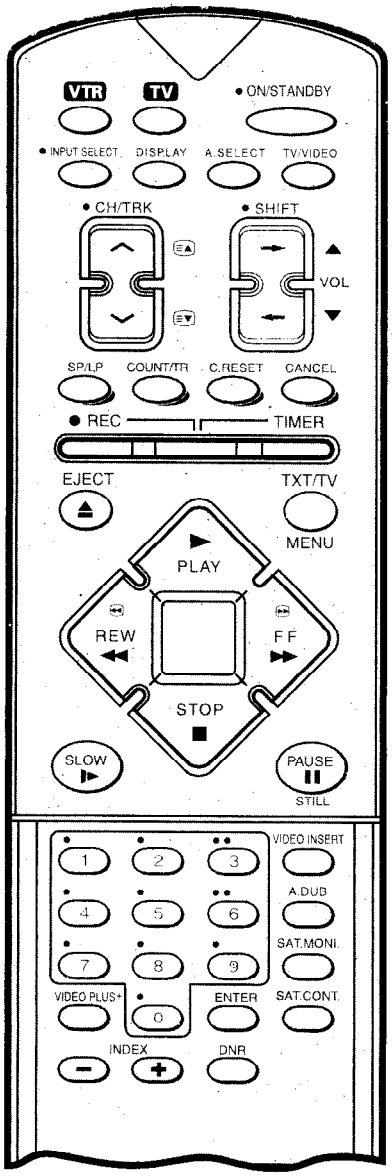
Please select your satellite brand
(TOSHIBA TYPE 1)

Test signal = 0
Change type = SHIFT
Change brand = CH ∧ / ∨
Cancel = CANCEL End = MENU

The VTR will send a test signal to the Satellite receiver.

Continued overleaf...

Control of Satellite Channels via Satellite Control continued



5 If the Satellite receiver switches to channel 12 it is working correctly. Press MENU to continue and go to instruction **7** below.

SATELLITE BRAND

(TOSHIBA TYPE 1)

Sending a test signal of CH. 12 to your satellite

6 If it does not switch to channel 12 continue trying to change the brand type by using the shift → buttons until the VTR controls the Satellite.

Note: If *no* Codes work, press the MENU button on the Remote Control and select **4** NO SATELLITE CONTROL on the next screen and *see step* **9** *below.*

Please select your satellite brand

(TOSHIBA TYPE 1)

If changed to CH 12 = MENU
Change type = SHIFT
Change brand = CH ∧ / ∨
Cancel = CANCEL End = MENU

SATELLITE CH ORDER
How is your satellite receiver tuned?

1 SKY ORDER
2 ASTRA ORDER
3 PERSONAL PREFERENCE
4 NO SATELLITE CONTROL

Press 1 - 4 to select
Press MENU to exit

7 You now need to tell the VTR the Channel order on your Satellite receiver.

Most Satellite receivers are preset to either SKY or ASTRA order. If, however, you have changed the order then you will need to select **3** PERSONAL PREFERENCE on the SATELLITE CH ORDER screen and change the VIDEO Plus+* system GUIDE numbers accordingly.

Select **1** - **4** and this will customise your VTR to your Satellite receiver.

8 If you selected **3** PERSONAL PREFERENCE you will need to enter the channel order of the Satellite receiver. Use the table on *page 32* to help.

GUIDE	CH P.
101	SA 1
102	SA 2
103	SA 3
104	SA 4
105	SA 5

Enter SAT channel
Press SHIFT to change GUIDE
Press MENU to exit

9 If you selected **4** NO SATELLITE CONTROL you will need to manually select the correct Satellite channel on the receiver when you want to record a Satellite programme.

The set-up is now complete.

Control of Satellite Channels via Satellite Control continued

From the tables below look up the make of the Satellite Receiver and note the Brand Names that this VTR support. The Channel order may change from time to time – contact your Satellite provider for the latest details.

Brand Name	Brand Name
ALBA	MIM TEC
ALDES	MORGAN
ALLSAT	NAGAI PALSAT
AMSTRAD	NEC
ARMSTRONG	NETWORK
BEST	NORDMENDE
BIG BROTHER	OAK
BT	PACE
BUSH	PANASONIC
C+SAT	PHILIPS
CABLE STAR	REDIFFUSION
CABLETIME	REVOX
CAMBRIDGE	SAKURA
CHANNEL MASTER	SALORA
D2MAC DECODER	SAMSUNG
DECSAT	SCHWAIGER
DIGITAL CANALSAT	SCIENTIFIC ATLANTA
DISEXPRESS	SIEMENS
DRAKE	SENTRA
ECHOSTAR	SONY
FERGUSON	STRONG
FUBA	TATUNG/NIKKO
GI	TECHNISAT
GRUNDIG	TELEDIREKT
HIRSCH MANN	TEXSCAN
HUTH	THOMSON
IMPULSE	TOSHIBA
ITT/NOKIA	TPS
JERROLD	TRISTAR
JVC	UNIDEN
KATHREIN	VIDEOTRON
LENCO	VIDEOWAY
MACOM	VISIO PASS
MASPRO	VORTEC
MATSUI	WISI

Please note:
These charts were correct at time of going to press.

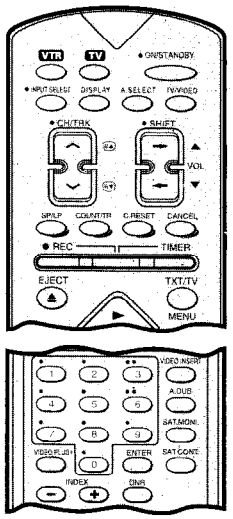
Station Name	VIDEO Plus+® system Guide Channel	SKY Order	ASTRA Order	Personal Preference
SKY ONE	101	1	8	
SKY NEWS	102	2	12	
SKY MOVIE MAX	103	3	16	
SKY PREMIERE	104	4	18	
THE DISNEY CHANNEL	111	5	26	
SKY BOX OFFICE 1	111	5	26	
SKY SPORTS 1	105	6	20	
NICKELODEON	106	7	46	
PARAMOUNT COMEDY CH.	106	7	46	
EBN	125	8	42	
TROUBLE	125	8	42	
BRAVO	125	8	42	
DISCOVERY HOME & LEISURE	124	9	41	
DISCOVERY	124	9	41	
UK GOLD	123	11	23	
QVC	136	12	38	
LIVING	130	13	34	
THE FANTASY CHANNEL	130	13	34	
MTV	109	14	15	
VH1	145	15	22	
SKY SPORTS 2	140	16	47	
SKY SPORTS 3	148	17	31	
PLAYBOY CHANNEL	148	17	31	
TV SHOP	148	17	31	
FOX KIDS	119	18	7	
NATIONAL GEOGRAPHIC	119	18	7	
GRANADA PLUS	131	19	3	
MEN & MOTORS	131	19	3	
WEATHER	127	20	60	
RACING	127	20	60	
SKY BOX OFFICE 2	127	20	60	
SKY BOX OFFICE 3	132	21	59	
SKY SCOTTISH	132	21	59	
GRANADA GOOD LIFE	142	22	58	
COMPUTER CHANNEL	142	22	58	
SKY BOX OFFICE 4	142	22	58	
CMT	138	24	51	
CHRISTIAN CHANNEL	122	26	24	
SOAP	122	26	24	
HISTORY	122	26	24	
SCI-FI	122	26	24	
TRAVEL	129	27	60	
SKY CINEMA	129	27	60	
CARTOON NETWORK	149	29	37	
TNT	149	29	37	
EUROSPORT	107	30	4	
CNN	126	31	28	

**It is important that you check that your VIDEO Plus+® system Guide Channel order stored on the VTR is the same order as your Satellite Receiver otherwise VIDEO Plus+® system programming will not work correctly.*

Control of Satellite Channels continued

Satellite Control and Satellite Monitor functions

Some functions of the Remote Control will not work whilst in this mode. To exit this mode, press the SAT.CONT. button on the Remote Control. 'SAT' will disappear from the VTR display panel.



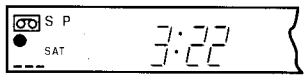
Note: Some Satellite receivers may not respond to all the operations above, or may not be operated with this Remote Control. In these cases, operate the Satellite receiver using its own remote control.

Satellite Control enables you to change channels on the Satellite using the VTR Remote Control.

1 Press the VTR button on the Remote Control.

2 Press the SAT.CONT. (Satellite Control) button to switch Satellite control ON. The VTR is now in Satellite Control mode and the VTR will automatically select the Satellite Input on the VTR that you have previously set.

3 'SAT' will appear in the VTR display panel, to switch it off, press the SAT.CONT. button again.



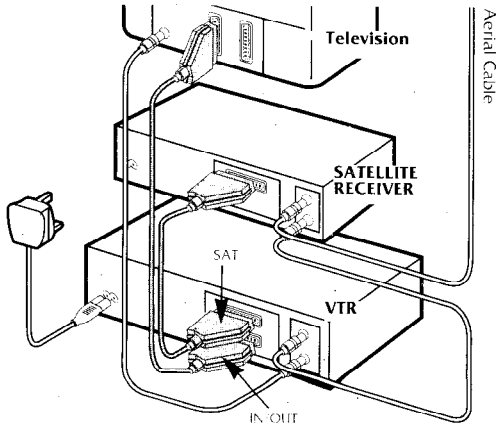
4 Select a Satellite channel using the numbered buttons on the Remote Control. Depending on the Satellite receiver, the ways of use may differ.

For example: to select SKY MOVIE MAX (on channel 3) either press 0 then 3, or 0 then 3 then the ENTER button, or 0 then 3 then the ENTER button twice.

5 When you have finished press the SAT.CONT. button to switch the Satellite Control OFF.

To reset the VTR to record from BBC 1, ITV etc, press the INPUT SELECT button repeatedly until a programme position number is displayed.

If the Satellite receiver has only *one* SCART output, which is connected to the VTR, enabling Stereo recordings; press the SAT.MONI (SATELLITE MONITOR) button on the Remote Control to view a Stereo Satellite broadcast on the television.



If the Satellite receiver has two SCART outputs, one to the VTR and another to the TV, you do not need to use this function.

To view Satellite in stereo you must select the SCART socket on the television (refer to the TV Owner's Manual).

To view Satellite in stereo when the video is in Standby or recording a television station:

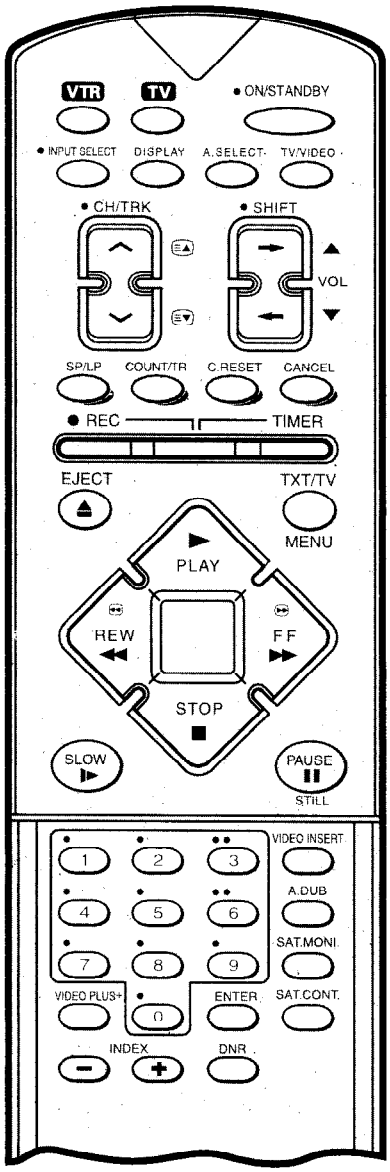
1 Press the SAT.MONI (SATELLITE MONITOR) button on the VTR Remote Control; this will loop the Satellite signal through the VTR up to the television in stereo.

2 If it has not been automatically selected, select the SCART socket on the television (refer to TV Owner's Manual).

3 To cancel press the SAT.MONI button again.

Note: If you press the MENU button on the Remote Control to display the green MAIN MENU on the TV screen the Satellite Monitor Function will cancel.

Recording from Satellite – VIDEO Plus+® Deluxe system, OTR and Timer



If you have connected the VTR to a Cable system, please refer to the Cable provider for full details on how to set up using VIDEO Plus+® Deluxe system.

If you have not followed the Satellite installation instructions as described in these *Satellite Control* pages you will NOT be able to use VIDEO Plus+® Deluxe system.

VIDEO Plus+® Deluxe system :

This gives the simplicity of VIDEO Plus+® system but also allows the recording of Satellite programmes. If Satellite Control works, VIDEO Plus+® Deluxe system will operate in the same way. *see page 20.*

OTR & Advanced OTR can be used in the same way as described on *page 21.*

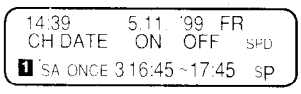
1 All you need to do is press the INPUT SELECT button on the Remote Control to select the appropriate connection.

e.g. SA for SATELLITE SCART
06 for RF channel number 6, etc.

You must ensure that the Satellite receiver is set to the required channel manually.

Timer recordings from Satellite channels can be made in the same way as described on *page 22.*

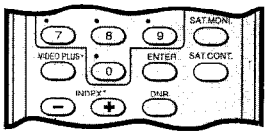
1 All you need to do is use the INPUT SELECT button on the Remote Control to select the appropriate connection:



e.g. SA for SATELLITE SCART
06 for RF channel number 6, etc.

If you have set up the Satellite Control function as described on *page 30*, you can press SAT.CONT. instead of the INPUT SELECT button.
SAT.CONT. automatically selects the required Satellite channel. If you use INPUT SELECT, you must ensure that the Satellite receiver is set to the required channel manually.

2 Press the SAT.CONT. button to display SA and enter the appropriate Channel number for the Satellite programme you wish to record using the number buttons on the Remote Control. Up to a maximum of 250 Channels can be control by this VTR.

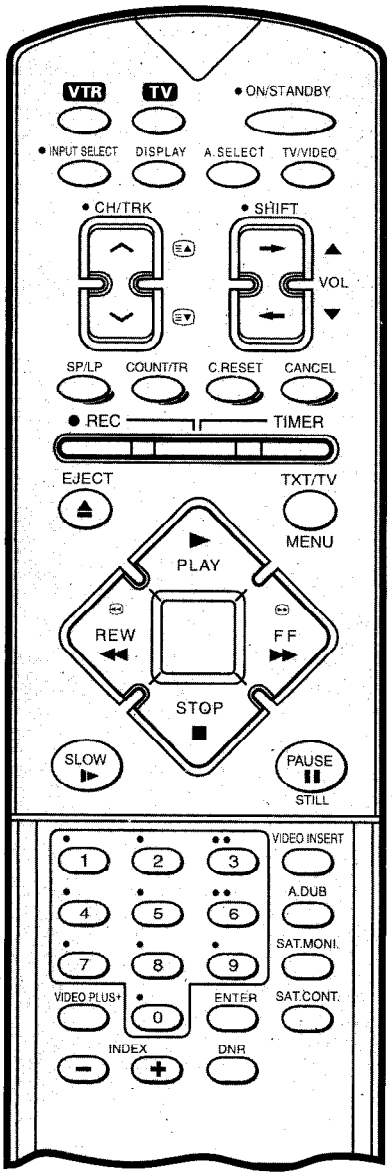


Hi-Fi Stereo Sound System

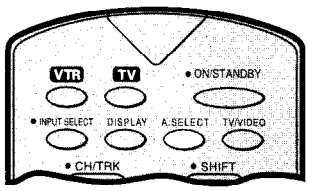
Selecting different audio tracks when viewing a Hi-Fi stereo recorded tape.

The VTR is capable of recording and playing sound in a number of ways. As you select the different options the display on the front of the VTR will change accordingly.

This is factory set to L + R and in most instances there will be little need to alter any of these settings.

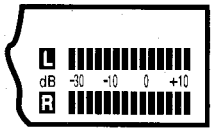


1 Repeatedly press the A.SELECT (audio select) button on the Remote Control.

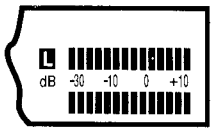


2 The output indicator on the front of the VTR will show the changes.
From: L and R, L, R, *blank*, MIX L and R, and back to L and R.

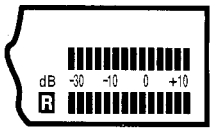
3 **When the display shows both L and R:**
Audio is played from both the Left and Right Hi-Fi tracks, giving a true stereo sound.



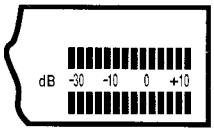
4 **When the display shows L:**
Audio from the left soundtrack on the tape is output from the VTR.



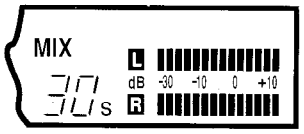
5 **When the display shows R:**
Audio sound from the right soundtrack on the tape is output from the VTR.



6 **When the display is *blank*:**
Audio taken from the mono soundtrack is output from the VTR.



7 **When the display shows MIX L and R:**
Stereo sound taken from the Hi-Fi track PLUS the MONO 'normal audio track' is output from the VTR.



Audio Dubbing

For adding soundtracks such as narration or music to previously-recorded video tapes.

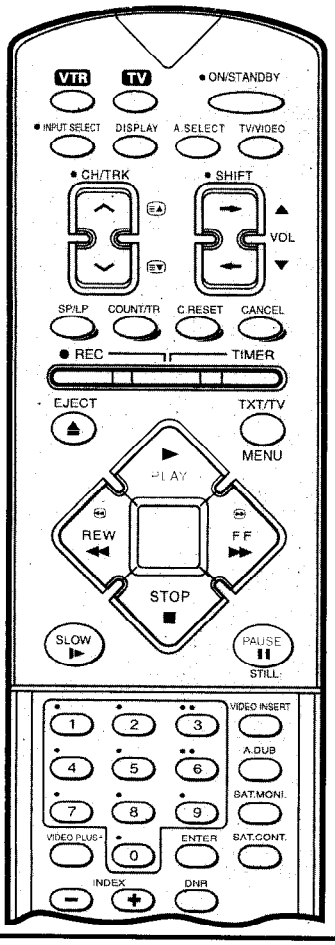
In addition to the left and right Hi-Fi audio tracks there is another soundtrack called the 'normal audio track'.

This 'normal audio track' is a mono track, recorded by all VTR recorders. When you record, the VTR uses the left and right Hi-Fi tracks for the normal stereo sound, but it also records a mono version of the soundtrack on the 'normal audio track'.

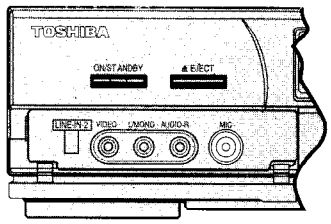
If you wish, you can record your own soundtrack onto this, the 'normal audio track', without affecting the soundtrack on the Hi-Fi.

This is ideal for putting a 'voice over' onto a home movie recorded on a camcorder.

In this way, you can keep the original soundtrack, but it means you can also add your own commentary.

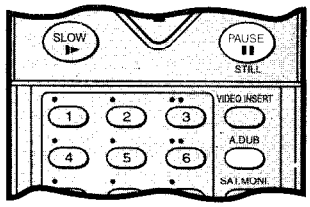


1 Plug a microphone into the MIC socket on the front of the VTR.



2 Insert the tape to be OVER-DUBBED (the tape with the new audio track to be recorded onto).

3 Find the the scene that you want to over-dub and press PAUSE/STILL on the Remote Control.



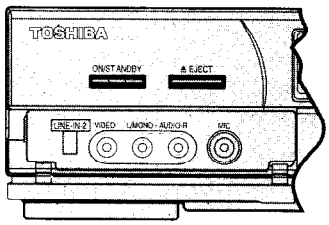
4 Press the A. DUB (audio dub) button on the Remote Control. (The screen may flicker, this is normal.)

5 Press the PAUSE/STILL button again to start both the playback and the Audio dub record.

6 Speak into the microphone to add your commentary etc.

Alternatively:

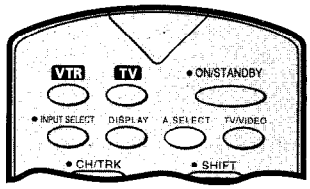
7 Connect suitable equipment *e.g.* cassette recorder to the LINE-IN-2 phono sockets on the front of the VTR.



8 If recording from LINE-IN-2 remember to disconnect any microphones.

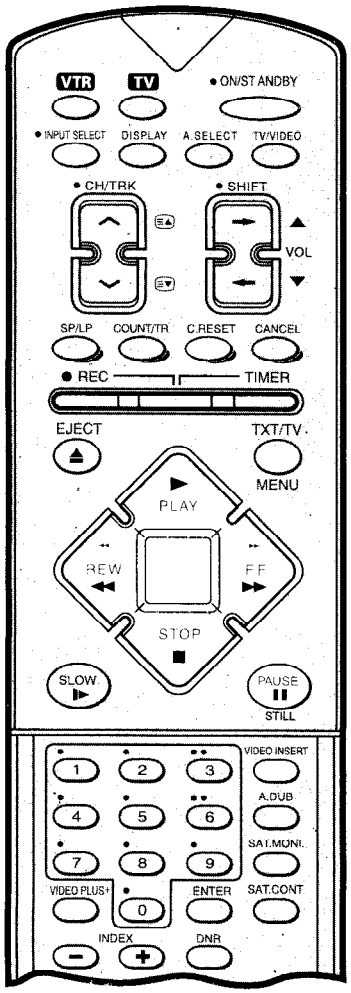
Follow from step **2** above to confirm:

9 When listening to the tape, use the A.SELECT button to select the required option.



See page 35 for the selection of soundtracks.

Editing a Video Tape



With the VTR, you can easily replace a scene on a recorded tape with another scene, simply by using the editing feature built into this model.

To insert edit you need to use a camcorder, video recorder or other source but you must tell *this* VTR how they are connected:

i.e.

L1 SCART connection through SCART 1 AUDIO/VIDEO

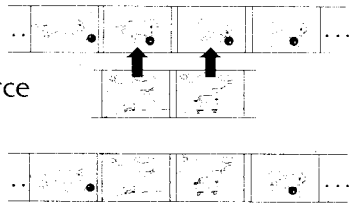
L2 Phono plug connection through input on the front of the VTR

SA SCART Connection through SCART 2 SATELLITE INPUT.

Original recorded tape

New frames from source (on 2nd VTR)

Final tape



1 Press the INPUT SELECT button to set up the input: L1 for SCART connection through SCART 1 AUDIO/VIDEO or L2 for phono connection.

2 Insert the tape into the *Source* VTR/Camcorder, press PLAY and locate the frames you wish to *insert*.

3 Press PAUSE (or STOP) on *this* VTR.

4 Insert the tape into the RECORDING VTR and press PLAY.

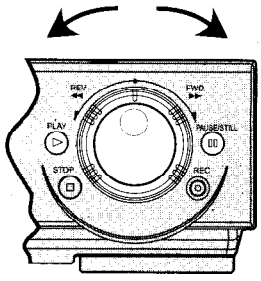
Locate the END of the scene you wish to replace.

5 Press the PAUSE/STILL button to halt the tape.

6 Press the C. RESET button to set the counter to ZERO (0H00M00S).

7 Use the JOG/SHUTTLE DIAL on the VTR and turn the OUTER ring *anti-clockwise* to rewind the tape to the START of the scene you wish to replace and release the JOG/SHUTTLE DIAL.

Rewind *F/Forward*



8 Press the VIDEO INSERT button on the Remote Control of the *recording* VTR.

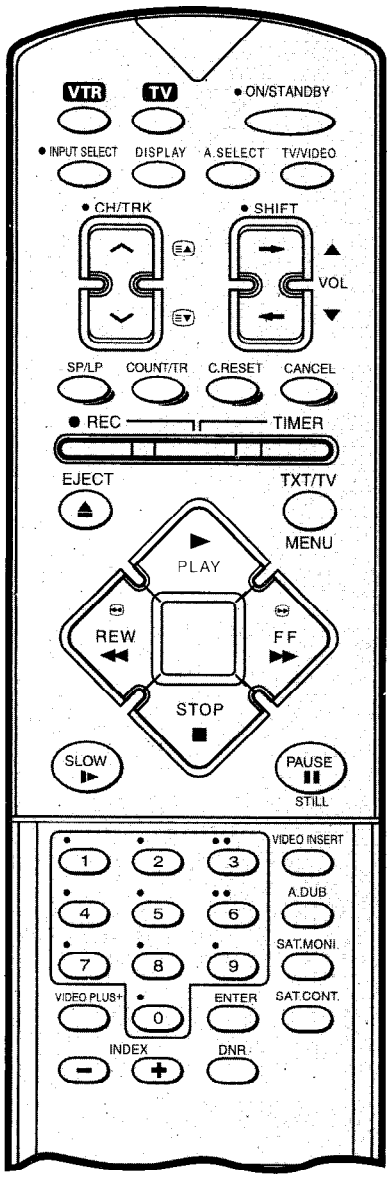
9 Press the PAUSE/STILL button on the PLAYBACK VTR to recommence playback.

10 Press the PAUSE/STILL button on the *recording* VTR to start recording. The recording will automatically stop when the counter reaches 0H00M00S.

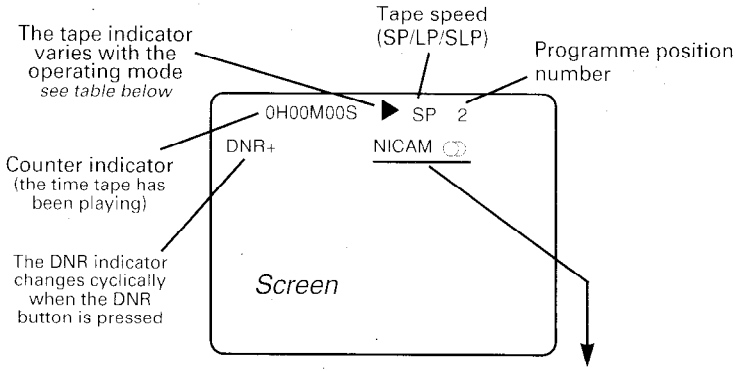
Note: When editing a video tape the Hi-Fi track will be deleted. Normal audio will remain.

On-screen and VTR front panel displays

Pressing the DISPLAY button on the Remote Control when a tape is in PLAY will display the tape indicator on the TV screen. When you insert a tape, the counter will change from the current time to 0H00M00S. Pressing the COUNT/TR button will give you information on the VTR display panel.



On Screen Displays



NICAM indicator – the VTR is capable of receiving and decoding NICAM signals when they are broadcast.

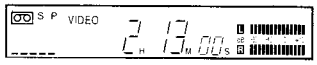
NICAM	STEREO TV programme (stereo sound)
NICAM I/II	BILINGUAL TV programme (transmitted in another language) (Not available in the UK)
UNLIT	NO NICAM programme or Normal TV programme (Monaural sound)

	Tape indicator on screen symbol		*Tape indicator on screen symbol*
Ejecting a tape	⏏	Recording pause	⏸●
STOP	■	Playback	▶
Double speed playback Fast-forwarding Forward picture search	▶▶	Reverse playback	◀
		Pause/Still picture Frame advance	⏸
Rewinding Reverse picture search	◀◀	Slow playback	▮▶
Recording	●	Reverse slow playback	◀▮

Counter – VTR Display

1 By repeatedly pressing the COUNT/TR button on the Remote Control, you will see:

i The time the tape has been playing.



ii TR* – The amount of tape Remaining (approx).

iii The current time.

* *Before the tape remaining function can work you must identify the length of tape in play – see page 24.*

Index marks and Index searches

Whenever a recording starts, the VTR puts an electronic Index mark on the tape.

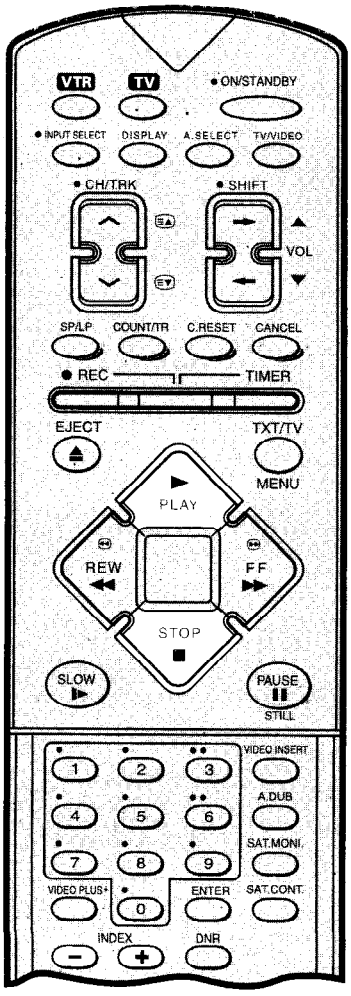
An Index search enables you to find the beginning of programmes easily and quickly.

You can put additional Index marks on a tape wherever you like, but *only during a recording*.

You cannot put in Index marks during playback of a tape.

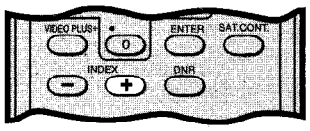
When registering Index marks, always leave at least a 1 minute gap when recording in SP and a 2 minute gap when recording in LP.

Index marks are not registered when the VTR is in pause mode during a recording.



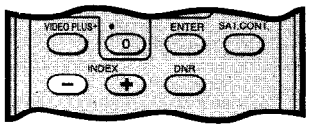
Making and finding Index marks:

1 To register an Index mark *during recording*, simply press the INDEX + button on the Remote Control.



2 To find the Index marks when a tape is in playback, press the INDEX+ button to search forwards or the INDEX – button to search backwards.

3 When an Index mark is found the VTR will playback the tape for 5 seconds, after which it will continue searching for the next Index mark.



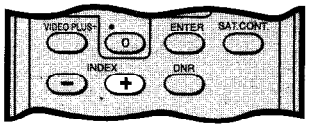
4 If you want to watch the tape from a particular Index, simply press PLAY.

Index Skip Search:

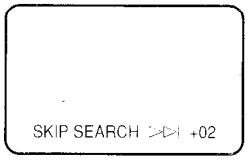
This feature will enable you to fast forward/rewind to a specific point on a tape:

E.g. if you have recorded 3 different programmes on a tape and you have rewound the tape to the beginning, by using this feature you can go directly to the start of programme 2 simply by pressing the INDEX button.

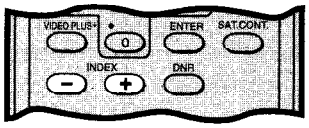
1 Press the INDEX + to start the Index search.



2 Press the INDEX + button twice more. This will take you directly to the start of the recording/Index mark 2. The VTR counter will show the progress of the search.



3 These Index searches can be made forwards: (press INDEX +) or backwards: (press INDEX –).



4 To cancel an Index search simply press the PLAY or STOP button.

You can skip forward or backward a maximum of 20 Index marks.

Multi-Brand Remote Control

The Remote Control of the VTR can be compatible with various brands of Television by setting the control codes. The TOSHIBA code has initially been set to control TOSHIBA Televisions.

For some Brands several Control Codes, or Brand Codes are allocated. Try each of them until the buttons on the Remote Control work on the Television. When the Remote Control batteries are replaced, set the Brand Code again.

BRAND CODES

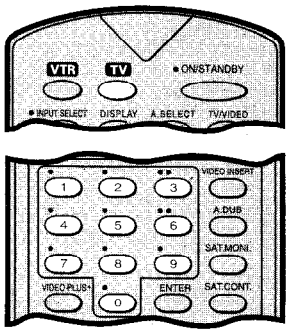
TV Brand Name	Brand Code
TOSHIBA	01, 09, 15, 16, 17, 18
AIWA	28
AKAI	08
BLAUPUNKT	04, 58
BRIONVEGA	20
C.G.M	19
COLONAD	13
DUAL	33
EMERSON	13, 14
FERGUSON	24
FENNER	30, 31
GOLDSTAR	03, 13, 14
GRUNDIG	04, 25
HITACHI	06
HYPER	31
INNO-HIT	34
IRRADIO	35
ITT	22, 23, 29
JVC	07
LOEWE	12
MITSUBISHI	36, 37, 38, 39
MIVAR	19
NEC	40
NOKIA	22, 23, 29
NORDMENDE	26, 27
ORION	47, 48
PANASONIC (NATIONAL)	03, 49
PHILIPS	02, 60, 61
PHONOLA	50, 62
PIONEER	11
SABA	41, 42
SAMSUNG	43, 44
SANYO	32
SCHNEIDER	46
SELECO	21
SHARP	05
SIEMENS	45
SINUDYNE	53
SONY	13, 14, 51, 52, 55
TEAC	54
TELEFUNKEN	56
THOMSON	10
WHITE WESTINGHOUSE	57

See the table opposite for the Television Brand Codes.

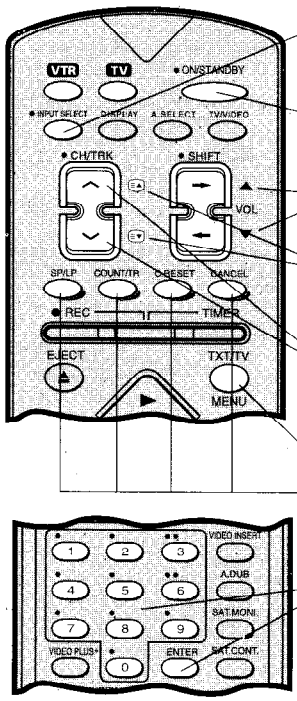
1 Press the TV button on the Remote Control.

2 Hold down the TV button on the Remote Control and enter the two digits of the TV's Brand Code using the number buttons.

3 Release the TV button.



4 With the Remote Control pointing at the Television use each button listed below to ensure that the TV is operated correctly:–



INPUT SELECT:
To select an external source such as a VTR.

ON/STANDBY:
Turns Television on or off.

VOL:
Adjusts the sound level.

PAGE UP/DOWN:
To page, up & down in teletext mode.

CH/TRK:
Selects the TV channels up or down.

TELETEXT button

FASTEXT buttons

Number Buttons and ENTER--/-:
To select TV channels. The way of use may differ with varying models of televisions.

E.g. ***To select Channel 3:***
Press number buttons 0 3 or
Press number buttons 0 3 and the ENTER button or
Press the ENTER button and the number button 3.

To select Channel 16:
Press number buttons 1 6 or
Press number buttons 1 6 and then the ENTER button or
Press the ENTER button twice and then the number buttons 1 and 6.

Note: Some TVs may not respond to all the operations listed above or may not be operated at all with the VTR Remote Control. In which case operation of the TV will have to be by its own Remote Control.

Additional Information for your reference

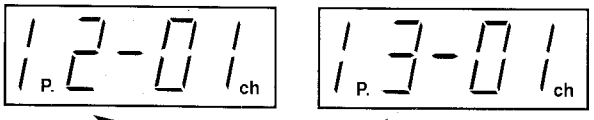
The following information may be helpful to you.

Some cable systems send all their TV and Satellite programmes on a unique frequency which in turn has been allocated for a transmission channel number. If you have this type of system you should tune and store each station in different position in VTR. Once station storing is done, you can select a TV programme by the position number on the VTR which the CATV station is stored.

Tuning range number	Brand	TV channel number
–	VHF	A – J (1 – 10), 11, 13
		E2 – E12 (82 – 92)
	UHF	E21 – E69 (21 – 69)
	CATV	X, Y, Z (71, 72 73)
2	CATV	1 – 53 (48MHz to 464MHz, 8MHz steps)
3	CATV	S1 – S41 (1 – 41)

1 Follow steps 1 – 4 of Manual Tuning procedure on page 14.

2 Press number button 6 repeatedly to select a tuning range number. (see the table above.)



Tuning range number

3 Follow steps 5 – 8 of Manual tuning on page 14 to complete manual tuning.

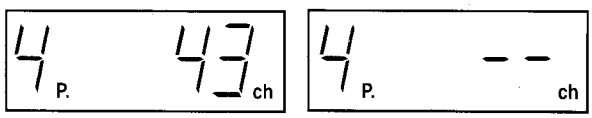
You can prevent the use of certain position numbers.

1 Set the VTR to the tuning mode following steps 1 – 3 of the Manual Tuning procedure on page 14.

2 Press the CH/TRK ^ or CH/TRK v button on the Remote Control to select the position number you want to skip.

3 Press number button 3. The following indication will appear on the front display panel of the VTR.

Skip function OFF ***Skip function ON***



4 To cancel channel skipping, press number button 3 again. The channel number will appear and the skip function will be cancelled.

5 Press the MENU button to exit.

When the "FULL (Clear prog?)" message appears on the TV during programming, no more programmes can be entered. If you want to add another programme, select an existing programme on the screen by using number buttons, and press the CANCEL button to delete it.

If an impossible PlusCode® programming number is entered, "Invalid code entered" blinks on the screen to tell you that the recording cannot be performed. Press the CANCEL button to clear the PlusCode® programming number and enter correct one.

If "Clash" message appears on the screen during programming, it tells you that two programmes with the same recording start time have been entered. You have to make a correction. On this screen, blinking item number means that the item has been entered later.

1) Enter the number of the programme you want to correct using number buttons.

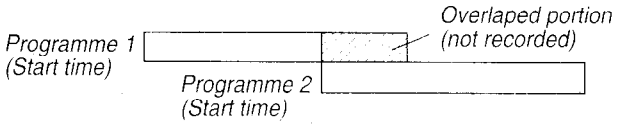
2) Correct the timer programme data, or clear the data by pressing the CANCEL button and then press the VIDEO Plus+ button to enter the PlusCode® programming number.

- The "E" (Error) indicator appears in the VTR display if you press the TIMER buttons when:
  - a cassette is not loaded.
  - the loaded cassette has no safety tab.
  - no timer programme is set.

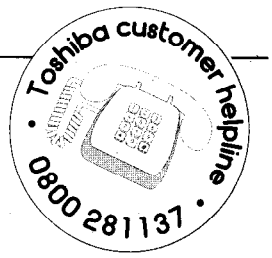
  In these cases, a recording cannot be made.

- If the 🕘 indicator is missing in the VTR display after the power failure, the programmed contents have been cleared. Reset the timer programming.
- When power has failed for a short time, the colon of the current time display blinks. The programmed contents are not affected. Reset the clock.

If two timer programmes overlap, the recording start time of programme 2 has priority over the recording off time of programme 1.



For your guidance, before calling for help...



If your VTR fails to operate correctly, we recommend that the following simple checks are carried out before contacting the Toshiba helpline or your local Toshiba dealer.

VTR not working: blank display on front of VTR; all TV channels poor...

➔ Check connection to the mains supply.

VTR Remote Control does not work...

➔ Check the batteries
➔ Ensure that the VTR button is pressed.

Cannot see a picture when Playing a tape...

➔ If using a SCART Lead, check it is pushed fully in at VTR and TV ends. On some TVs you will need to select SCART Input manually (consult the *TV* Owner's Manual)
➔ If not using a SCART Lead you will need to tune a spare channel on the TV to pick up the signal from the VTR (consult the *TV* Owner's Manual).

All television channels disappear when using the VTR...

➔ Check that the RF Aerial leads are connected as shown on page 9 of this Manual
➔ Check that 'Antenna Select' is set to 'MIX', see page 15 of this Manual.

One television channel disappears or is distorted when using the VTR...

➔ The RF output channel of the VTR is clashing with one of the broadcast channels in your area so you need to move the RF output of the VTR, see p15 of this Manual.

When Playing a tape there is picture but no sound or sound but no picture...

➔ If you have a SCART Lead connected check it is fully pushed in at both the TV and VTR ends.

When Playing a tape there is no colour...

➔ Check colour is turned ON in the User Setting 2/2 screen, see page 26 of this Manual
➔ If using a SCART Lead check the TV is not set to 'S-VHS' (consult the *TV* Owner's Manual).

Tapes do not play in stereo on a stereo television...

➔ The VTR must be connected to the TV via a SCART Lead and AV Input must be selected on the TV (consult the *TV* Owner's Manual)
➔ Check the VTR is playing back a hi-fi soundtrack by pressing the A.SELECT button on the VTR Remote Control until a small 'L' and 'R' appear in the VTR display panel
➔ The tape was not recorded with a hi-fi soundtrack.

A clock or counter appears in white on the television screen when using the VTR...

➔ Press the DISPLAY button on the VTR Remote Control to remove it.

Television programmes cannot be viewed through the VTR...

➔ Select your VTR channel on the TV
➔ If using a SCART Lead select AV input on the TV
➔ Press the TV/VIDEO button on VTR Remote Control so that 'VIDEO' appears in red on the VTR display panel
➔ If L1, L2 or SA appears in the VTR display press the INPUT SELECT button on the VTR Remote Control until a channel number appears.

'Auto Tune' or 'Manual Tune' cannot be selected in the on-screen Menus...

➔ If you have a tape Playing or Recording, you must stop it
➔ If L1, L2 or SA appears in the VTR display panel, press the INPUT SELECT button on the VTR Remote Control until a channel number appears.

Cannot record using VIDEO Plus+® system...

➔ Check the clock is set correctly (time and date)
➔ Check the VIDEO Plus+® system Guide Channels are set correctly, see page 11 of this Manual
➔ Check the cassette has not had the safety tab removed
➔ Make sure the two TIMER buttons on the Remote Control are pressed after entering recording details.

Cannot record using TIMER RECORDING...

➔ Check the information listed above for VIDEO Plus+® system recording
➔ If On/Off times entered differ from those *advertised* ensure PDC is OFF, see page 26.

Specifications and Accessories

SYSTEM

Format:	VHS standard
Recording system:	Rotary, 2-head helical scan system
Video heads:	4 heads
Video signal system:	CCIR; 625 lines, 50 fields, PAL colour signal, NTSC colour, 525 lines
Tape speed:	SP: 23.39mm/s (PAL) SP: 33.35MM/S (NTSC)
	LP: 11.70 mm/s (PAL) SLP: 11.12mm/s (NTSC)
Recording time:	SP: 240 minutes with E240 cassettes (PAL)
	LP: 480 minutes with E240 cassettes (PAL)
Winding time:	Approximately 110 seconds with E180 cassettes
Dimensions:	430.4(w) x 91.5(h) x 310.3(d)mm
Mass:	4.4 kg
Operating temperature:	+5 to +40 C
Operating humidity:	Less than 80% RH
Mains power:	230/240V AC, 50Hz
Power consumption:	20W (in operation) 6W (normal standby) 3W (Eco Mode standby)

CONNECTORS

Aerial input:	75Ω coaxial
Aerial output:	75Ω coaxial
Video input:	LINE 1 IN/OUT SCART socket, 1.0 V(p-p), 75Ω
	LINE IN 2 VIDEO Phono socket, 1.0 V(p-p) 75Ω
Audio input:	LINE 1 IN/OUT SCART socket, 308mV(rms), more than 10 kΩ
	LINE IN 2 AUDIO Phono socket, 308mV(rms)m more than 47 kΩ
Video output:	LINE 1 IN/OUT SCART socket, 1.0 V(p-p), 75Ω
Audio output:	LINE 1 IN/OUT SCART socket, 308 mV(rms), less than 1.0 kΩ
	AUDIO OUT Phono socket, 308 mV(rms), less than 4.7 kΩ

VIDEO

Signal-to-noise ratio:	More than 43dB (SP tape speed/PAL)

AUDIO

Signal-to-noise ratio:	More than 42dB (SP tape speed/PAL/normal mono)
Frequency range:	20Hz to 20kHz (Hi-Fi mode)
Dynamic range:	More than 90dB (Hi-Fi mode)
Audio track:	1 track (Normal mono), 2 channels (Hi-Fi sound)

TIMER

Clock:	24-hour digital indication
No of events:	6 events 1 month

TUNER

System:	Frequency synthesizer
Channel coverage:	PALI VHF : A – J, 11, 13, E2 – E12 UHF: E21 – E69
	CATV : X, Y, Z, S1 – S41, 1 – 53 (48MHz to 464MHz, 8MHz steps)
Stereo:	NICAM-I
RF converter:	UHF 21 – 69, auto seeking and adjustable, System-I

ACCESSORIES

Aerial cable x 1 Remote Controller x 1 (batteries UM-4, AAA, IEC R03 x 2) Power Cord x 1 Fullscart x 1

Designs and specifications are subject to change without notice.

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